Integrated Media Center

NVS-7.7

Instruction Manual

Integra

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

PORTABLE CART WARNING

S3125A

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Damage Requiring Service
    Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power-supply cord or plug is damaged,
    B. If liquid has been spilled, or objects have fallen into the apparatus,
    C. If the apparatus has been exposed to rain or water,
    D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
    E. If the apparatus has been dropped or damaged in any way, and
    F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
16. Object and Liquid Entry
    Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
    The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.
    Don't put candles or other burning objects on top of this unit.
17. Batteries
    Always consider the environmental issues and follow local regulations when disposing of batteries.
18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.
    Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

Precautions

1. **Recording Copyright**—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
2. **AC Fuse**—The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer.
3. **Care**—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.
4. **Power**
   WARNING
   BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.
   AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 120 V, 60 Hz).
5. **Never Touch this Unit with Wet Hands**—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.
6. **Handling Notes**
   - If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
   - Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
   - This unit's top and rear panels may get warm after prolonged use. This is normal.
   - If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.
   - When you've finished using this unit, remove all discs and turn off the power.
7. **Installing this Unit**
   - Install this unit in a well-ventilated location.
   - Ensure that there's adequate ventilation all around this unit, especially if it's installed in an audio rack. If the ventilation is inadequate, the unit may overheat, leading to malfunction.
   - Do not expose this unit to direct sunlight or heat sources, because its internal temperature may rise, shortening the life of the optical pickup.
   - Avoid damp and dusty places, and places subject to vibrations from loudspeakers. Never put the unit on top of, or directly above a loudspeaker.
   - Install this unit horizontally. Never use it on its side or on a sloping surface, because it may cause a malfunction.
   - If you install this unit near a TV, radio, or VCR, the picture and sound quality may be affected. If this occurs, move this unit away from the TV, radio, or VCR.
8. **To Obtain a Clear Picture**—This unit is a high-tech, precision device. If the lens on the optical pickup, or the disc drive mechanism becomes dirty or worn, the picture quality may be affected. To maintain the best picture quality, we recommend regular inspection and maintenance (cleaning or worn part replacement) every 1,000 hours of use depending on the operating environment. Contact your Onkyo dealer for details.
9. **Moisture Condensation**
   Moisture condensation may damage this unit.
   Read the following carefully:
   Moisture may condense on the lens of the optical pickup, one of the most important parts inside this unit.
   - Moisture condensation can occur in the following situations:
     – The unit is moved from a cold place to a warm place.
     – A heater is turned on, or cold air from an air conditioner is hitting the unit.
     – In the summer, when this unit is moved from an air conditioned room to a hot and humid place.
     – The unit is used in a humid place.
   - Do not use this unit when there's the possibility of moisture condensation occurring. Doing so may damage your discs and certain parts inside this unit.

   If condensation does occur, remove all discs and leave this unit turned on for two to three hours. By this time, the unit will have warmed up and any condensation will have evaporated.
10. **Region Numbers**—The DVD standard uses region numbers to control how discs can be played around the world, the world being divided into six regions. This unit will only play DVD discs that match its region number, which can be found on its rear panel (e.g., ,).
11. **About this Manual**—This manual explains how to use all of this unit's functions. Although the DVD standard offers many special features, not all discs use them all, so depending on the disc being played, this unit may not respond to certain functions. See the disc's sleeve notes for supported features.

Electrical Safety
CAUTION:
Place this unit where there is adequate ventilation. Do not block the unit's vents and do not place another device directly on top. If placed in a cabinet, make sure there is adequate ventilation at the back and the front of the cabinet.
Place this unit at the bottom of the cabinet.

- To prevent electrical shock hazard, disconnect the power cord from the electrical outlet before moving this unit.
- If the power supply is broken, do not attempt to fix it yourself. Contact a qualified service technician or your retailer.

Operation Safety

- Before using the product, make sure all cables are correctly connected and the cords are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets, and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet. Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.
- Slots and openings are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. This product should never be placed near or over a radiator or heat register.

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit.
To prevent being exposed to the laser beam, do not try to open the enclosure.

DANGER:

VISIBLE AND/OR INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The label on the right is applied on the rear panel.

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

Safety and Regulatory Information

This section provides detailed safety and regulatory information for this component, including:

- **Safety Compliance Statement**
  This product complies with the safety requirements for Information Technology Equipment and is Listed by Underwriters Laboratories, Inc. to UL 60950 for the U.S.
- **Lithium Battery Caution Statement**
  CAUTION:
  Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.
- **Safety Notices, Radio frequency**
  This component, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this device, however, is less than the electromagnetic energy emitted by other wireless devices such as mobile phones.

  The FCC, Industry Canada, and other international regulatory agencies have adopted safety standards and recommendations for human exposure to radio frequency (RF) electromagnetic energy emitted by wireless equipment. This component complies with the RF radiation exposure limits found in FCC OET Bulletin 65, 2001, and ANSI/IEEE C95.1, 1992. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. Proper operation of the equipment according to the instructions found in this manual and noted below will result in exposure substantially below the recommended limits.

  Notice: Install or position this component so that the antenna (located behind the equipment front panel) is at least 8 inches (20 cm.) from the user or other persons. Failure to locate the equipment at this minimum distance may result in exceeding the FCC limits for human exposure to RF (radio frequency) energy.

  In some situations or environments, the use of the wireless device may be restricted by the proprietor of the building or responsible representatives of any applicable organization or authority. If you are uncertain of the policy that applies to the use of wireless devices in specific organizations or environments, you are encouraged to request authorization to use this component prior to any wireless data transmitting.

- **Local Restrictions on Radio Usage**
  The 2.4 GHz and 5 GHz frequency bands used by this components are not fully harmonized in all countries. This equipment has been certified for use in specific countries and should not be operated outside the countries or markets designated below.
  As a user of this product, you are responsible for ensuring that this equipment is used only in the countries for which it was intended and for verifying that it is properly configured with the correct selection of frequency and channels for the country of use. Any deviation from the permissible settings for the country of use is an infringement of national law, rules, or regulations and may be punishable as such. See below for country-specific information:

Emissions Compliance Statements

For U.S. models

FCC Information for User

CAUTION:
The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Product Ecology Statement

The following information is provided to address worldwide product ecology concerns and regulations.

- **Disposal and Recycling Considerations**
  This product contains the following materials that may be regulated upon disposal: lead solder on printed circuit board assemblies.
  We encourage our customers to recycle their products and components (e.g., batteries, circuit boards, plastic and metal enclosures, etc.) whenever possible.
  In the United States, a list of recyclers in your area can be found at: http://www.eiae.org

Data Loss Disclaimer

Before returning this product for service, be sure to back up all of your data and remove all third party software.

With respect to all service provided, it is your responsibility to back up the contents of this product, including any data you have stored or software you have installed on this product. It is likely that the contents of this product will be lost in the course of service and we will not be responsible for any damage to or loss of any programs, data, or other information stored on any media or any part of any product serviced hereunder.

IF DURING THE REPAIR OF THE PRODUCT THE CONTENTS OF THIS PRODUCT ARE ALTERED, DELETED, OR IN ANY WAY MODIFIED, WE ARE NOT RESPONSIBLE WHATSOEVER. YOUR PRODUCT WILL BE RETURNED TO YOU CONFIGURED AS ORIGINALLY PURCHASED (SUBJECT TO AVAILABILITY OF SOFTWARE).

Be sure to remove all third party hardware, software, features, parts, options, alterations, and attachments not warranted by us prior to sending the product to us for service. We are not liable for any loss or damage to these items.

Precautions for Using this Product

Before using this product, read the following precautions for proper use.

- This manual assumes that the reader is familiar with the basic operation of Windows®, such as using the mouse and the keyboard.
- Onkyo will not bear any responsibility for any consequences arising from the use of this product.
- Onkyo will not bear any responsibility for any consequential losses arising from the malfunction, misoperation, defects, etc. of this product.
- The content of this manual may be updated as necessary without prior notice.
- It is prohibited to transfer or reproduce this manual in whole or part without written permission.

Hard Disk Data

Subjecting the product to vibration, shock, power loss, etc., may cause damage or data lose. Especially when using the product, do not subject it to vibration or shock and do not disconnect the power cord. In addition, back up your important data regularly to a recordable CD, DVD, or an external hard disk.
Note that hard disk failure is not covered by the warranty. Any repairs must be paid for by the user.

Cooling Fan Noise

When you first turn on the product, or when you turn it on after disconnecting and reconnecting the power cord, the sound of the cooling fan may be quite loud temporarily. This is because the fan control circuit has not yet activated and is not a malfunction.

Copyright Warning

The copying and editing of CDs, DVDs, digital music files and images downloaded from the Internet, and other works subject to copyright is only permitted for personal or home use. Unless you are the copyright holder, or you have the written permission of the copyright holder, copying and editing such works for any other purpose is a violation of copyright laws.

Hard Disk Content Disclaimer

Onkyo does not bear any responsibility whatsoever for any mistakes or printing errors in any items supplied with this product, including information, software, products, services, or items supplied on CD or obtained from the Internet. In addition, Onkyo does not bear any responsibility whatsoever for the copyright of anything the user stores on this product, including information, software, products, services, or items supplied on CD or obtained from the Internet.
In no event shall Onkyo be liable for any incidental, special, disciplinary, indirect or consequential damages whatsoever, including, without limitation, damages for loss of profits, loss of data, loss or damage of usage, business interruption or any other commercial damages or losses, arising out of or related to your use or inability to use this product, functions or related services, your provision of or inability to provide the services, or any content, information, software, product, services, and/or related graphics, or otherwise, your use of this product, regardless of the theory of liability (contract, tort, fault, severe responsibility or otherwise) and even if Onkyo has been advised of the possibility or occurrence of such damages.

Disc Notes

Playable Discs

The types of discs that can be played in the NVS-7.7 is dependent on the playback software (i.e., Media Center and PowerDVD).
Read this section carefully and play discs accordingly.

- Depending on how they were recorded, some discs may not play properly even if they bear one of the supported disc logos.
- Do not move or vibrate the NVS-7.7 during playback, as it may damage the disc. Do not touch the disc tray while it's moving, as it may cause a malfunction.
- Do not press down on the disc tray, and do not place anything other than discs on it. Doing so may damage the disc drive.
- Typically a menu appears when movie playback finishes. If the same menu is displayed for a long time, it may cause screen burn-in and damage your TV screen. To prevent this, press the Stop button when playback finishes.

Supported Discs

The NVS-7.7 supports the following discs for playback. Discs that are not listed are not supported.

Playable Discs	
DVD-Video	DVD-R*a, DVD-R DL*a, DVD-RW*a
DVD-Audio*b	DVD+R*a, DVD+R DL*a, DVD+RW*a
CD*d	Video CD*c *d
CD-R*c *d, CD-RW*c *d	

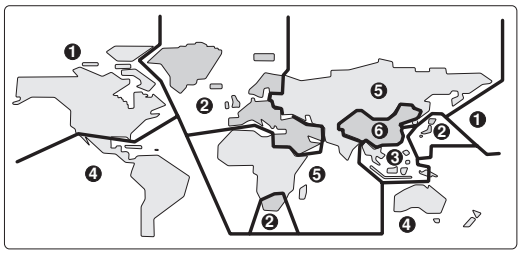
*a. Discs recorded in VR mode can only be played with the PowerDVD program.
*b. DVD-Audio discs can only be played with the PowerDVD program.
*c. Video CDs can only be played with the PowerDVD program.
*d. The NVS-7.7 doesn't support digital output for DTS CDs. DTS CDs can only be played with the PowerDVD program when the **Enable S/PDIF** option is deselected. Trying to play a DTS CD with Media Center may produce noise or a system crash. When playing DTS CDs, always start PowerDVD before loading the disc (see page 38).

- The NVS-7.7 does not support DVD-VR discs that use CPRM (Content Protection for Recordable Media). Do not try to play such discs.
- Some audio CDs feature copy protection that doesn't conform to the official CD standard. Since these are nonstandard discs, they may not play properly in the NVS-7.7.
- Some CD±R/RW and DVD±R/RW discs may not work properly for any of the following reasons: incomplete disc finalization, disc burner characteristics, disc characteristics, the disc is damaged or dirty. See the manual supplied with your disc burner for more information. Condensation or dirt on the optical pickup lens can also affect playback.
- The NVS-7.7 supports 8 cm and 12 cm discs.
- Don't use discs with an unusual shape, such as those shown below, as they may damage the NVS-7.7.

- Don't use discs that have residue from adhesive tape, rental discs with peeling labels, or discs with custom-made labels or stickers. Doing so may damage the NVS-7.7 and you may not be able to remove the disc properly.

DVD-Video Regions

The DVD-Video standard uses region numbers to control how discs can be played around the world, the world being divided into six regions, as shown. The NVS-7.7 will only play DVD-Video discs that match its region number, which can be found on the rear panel (e.g.,). If you attempt to play a disc intended for another region, a message saying that the disc cannot be played appears. Discs marked *ALL* can be played in any DVD player.



About PowerDVD Playability

You must use the PowerDVD program to play DVD-Audio, DTS CD, and Video CD discs. These types of discs are not supported by Media Center. PowerDVD cannot display photos and images (JPEG, GIF, BMP, etc). Use Media Center to display these types of files.

Video CD

The PowerDVD program supports Video CDs with PBC (Versions 1.1 and 2.0). Media Center does not support Video CD.

- **Video CD (Version 1.1)**
  On the NVS-7.7, the contents of Video CDs that conform to Version 1.1 of the Video CD standard are handled as tracks.
- **Video CD with PBC (Version 2.0)**
  In addition to the functions supported by Version 1.1, Version 2.0 offers playback control via interactive menus and search functions. Note that the NVS-7.7 doesn't support all PBC functions.

Unfinalized Discs

Unfinalized discs cannot be played in the NVS-7.7. If you record your own discs with a DVD recorder or other disc burner, always remember to finalize them.

Recordable Discs

The types of discs that can be recorded in the NVS-7.7 is dependent on the recording software (i.e., Media Center and NeroVision Express 3).
Read this section carefully and record discs accordingly.

- **To make a data CD/DVD or audio CD,** in Media Center, select to the Create CD/DVD menu. From there, you can make a data CD/DVD containing your digital music files, photos, and video, or make an audio CD, which can be played in any standard CD player.
- **To make a DVD in Video mode or VR mode,** use NeroVision Express 3. You can burn your video files in DVD-Video format (Video mode) or DVD Video Recording format (VR mode). With CD-R/RW discs, you can make Video CD, Super Video CD, and miniDVD discs.

Disc Recording Notes

- While disc recording is in progress, don't use the NVS-7.7 for anything else, as it may cause the recording to fail.
- Even if they bear one of the supported disc logos, recording may not be possible with some discs, and some discs may not be playable due to the way in which they were recorded.
- Some file formats cannot be recorded to disc.
- Recording is not possible with some copy protected CDs and CDs that do not conform to the CD standard. For more details, contact the dealer from where you buy your CDs.

Supported Discs

The NVS-7.7 supports the following discs for recording. Discs that are not listed are not supported.

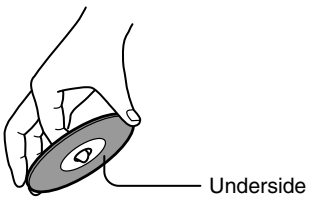
Recordable Discs			
DVD-R*a DVD+R DL*a	DVD-RW	DVD+R DVD+R DL*b	DVD+RW*c
CD-R	CD-RW		

*a. DVD-R and DVD-R DL discs cannot be used with VR mode.
*b. DVD+R DL (Double Layer) discs cannot be used with Video mode or VR mode.
*c. DVD+RW discs cannot be used to make data DVDs.

- Use DVD-R discs that conform to the General Use Version 2.0 standard.
- Use DVD-R DL (Double Layer) discs that conform to the DVD-R for DL Version 3.0/4x-Speed DVD-R for DL Revision 1.0 standard.
- Use DVD-RW discs that conform to the DVD-RW Version 1.1 standard.
- Use DVD+R discs that conform to the DVD+R 16x standard.
- Use DVD+R DL discs that conform to the DVD+R Double Layer 8x standard.

Handling Discs

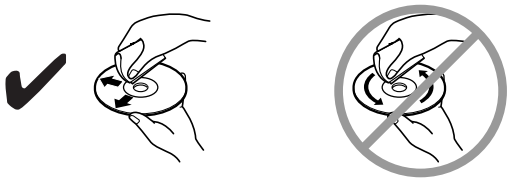
- Never touch the underside of a disc. Always hold discs by the edge, as shown.



- Never attach adhesive tape or sticky labels to discs.

Cleaning Discs

- For best results, keep your discs clean. Fingerprints and dust can affect the sound and picture quality and should be removed as follows. Using a clean soft cloth, wipe from the center outwards, as shown. Never wipe in a circular direction.



- To remove stubborn dust or dirt, wipe the disc with a damp soft cloth, and then dry it with a dry cloth.
- Never use solvent-based cleaning fluids, such as thinner or benzine, commercially available cleaners, or antistatic sprays intended for vinyl records, as they may damage the disc.

Storing Discs

- Don't store discs in places subject to direct sunlight, or near heat sources.
- Don't store discs in places subject to moisture or dust, such as in a bathroom or near a humidifier.
- Always store discs in their cases and vertically. Stacking, or putting objects on unprotected discs may cause warping, scratches, or other damage.

About Music CD Copyright

Music works are protected under copyright laws. These laws allow copying of commercial music CDs and broadcasted music (as music files) for individual enjoyment only.
Be aware that the act of posting MP3, WMA, or WAVE data on Web pages, etc. on the Internet or distributing music data outside of the scope of personal use without permission of the copyright holder (including record industry or association) constitutes violation of the copyright laws.

About DVD-Video Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, or rent copyrighted material without permission.
Commercial DVD-Video discs are copy-protected, and any recordings made from these discs will be distorted. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Features

General

- Windows®*1 XP Media Center Edition 2005
- Intel®*2 Viiv™ technology
- Stylish design and quiet operation
- Analog and digital TV tuners with PVR functionality
- FM tuner

PC Spec

- Intel Pentium® D 820 (2.8 GHz)
- One gigabyte of memory
- 400 gigabyte hard disk drive
- CD/DVD+/–RW dual layer drive
- 8-in-1 media card reader: SmartMedia, MMC (MultiMediaCard), SD (Secure Digital), CompactFlash Type I/II, Microdrive, Memory Stick (MS), Memory Stick PRO (MS PRO)
- Serial ATA-II (150) for storage transfer speeds of up to 1.5 Gb/s
- Intel PRO 10/100 Ethernet LAN port
- Four USB 2.0 ports

Software

- CyberLink PowerDVD 6
- NeroVision Express 3
- Net-Tune*3 Central 2 MCE Edition
- Symantec Norton Internet Security 2006
- SoftThink System Recovery

Audio

- Intel High Definition Audio (192 kHz/24-bit)
  —MIDI playback (OS standard)
  —3D audio (DirectSound 3D)
- Dolby*4 Master Studio
- Optical and coaxial digital audio outputs
- 7.1/5.1-channel analog audio output
- Dedicated VLSC*5 (Vector Linear Shaping Circuitry) stereo output
- Stereo audio input

Video

- Component video output
- DVI video output
- VGA output
- S-Video/composite video output
- Three IEEE1394 ports
- S-Video and composite video inputs
- Analog and digital TV/FM antenna inputs

Others

- Control the NVS-7.7 from the comfort of your couch with the remote controller
- Change channels on your cable or satellite set-top box
- Wireless keyboard provides all the functionality of a standard PC keyboard, plus dedicated keys for AV enjoyment and a trackball
- Two IR emitter outputs
- RS-232 port for external control

*1 Microsoft, Windows, Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.

*2

Intel Viiv technology
Intel's new platform designed for the enjoyment of digital entertainment "Intel Viiv technology" delivers the multitasking power of a dual-core processor and enables sleek new designs that fit your lifestyle.

*3

Net-Tune is a registered trademark of Onkyo Corporation.

*4

Manufactured under license from Dolby Laboratories.
Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
Master Studio is a trademark of Dolby Laboratories.

*5

VLSC and the VLSC logo are registered trademarks of Onkyo Corporation.

"DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.
DTS is not supported or supported function is changed if PowerDVD is deleted or changed.
The NVS-7.7 doesn't support digital output for DTS CDs. To play a DTS CD, start the PowerDVD program and deselect the **Enable S/PDIF** option.

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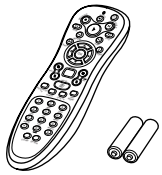
Cyberlink and PowerDVD are trademarks of Cyberlink Corp.

All other trademarks acknowledged.

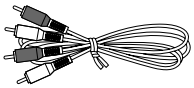
Supplied Accessories

Make sure you have the following accessories:

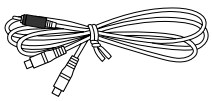


Remote controller and two batteries (AA/R6)

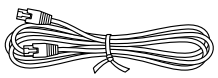
Wireless keyboard and three batteries (AA/R6)



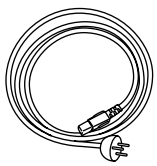
RCA Audio Connection cable (1.5 m)



S-Video/composite video cable (1.5 m)



LAN cable (1.5 m)



Power cord (1.5 m)

* In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operation are the same regardless of color.

Thank you for purchasing an Integrated Media Center.
Please read this manual thoroughly before making connections and turning on the power.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new Integrated Media Center.
Please retain this manual for future reference.

About This Manual

This manual explains how to connect and set up the NVS-7.7 ready to use Media Center.
Media Center and the preinstalled software is explained in the separate Media Center Instruction Manual.

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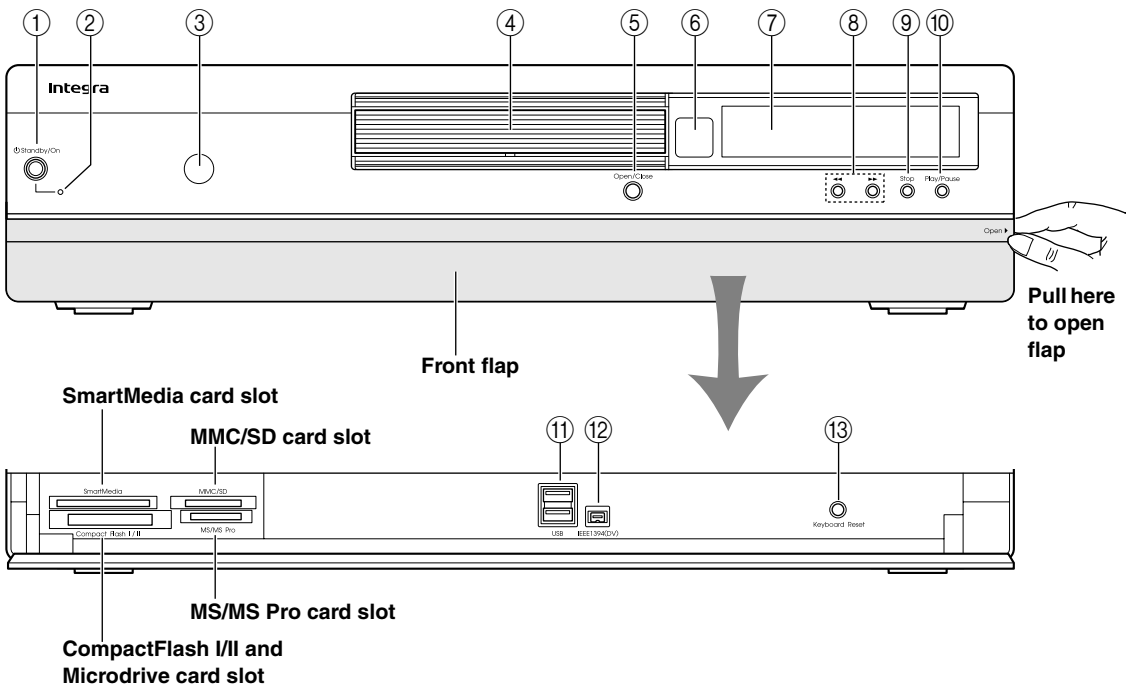
Front Panel



For detailed information, see the pages in parentheses.

① **Standby/On button (33, 40)**
Sets the NVS-7.7 to On or Standby.

② **Standby indicator (33, 40)**
Lights up orange when the NVS-7.7 is off, red when it's in Standby mode, and goes off altogether when its on.

③ **Keyboard receiver**
Radio signals from the wireless keyboard are received here.

④ **CD/DVD disc tray**
CDs and DVDs are loaded here.

⑤ **Open/Close button**
Opens and closes the disc tray.

⑥ **Remote-control sensor (22)**
Receives control signals from the remote controller.

⑦ **Display**
See "Display" on page 15.

⑧ **Rewind and Fast Forward [◄◄]/[►►] buttons**
Used to rewind [◄◄] or fast forward [►►] DVDs, music, or other media.

⑨ **Stop button**
Stops playback or recording.

⑩ **Play/Pause button**
Starts or pauses playback.

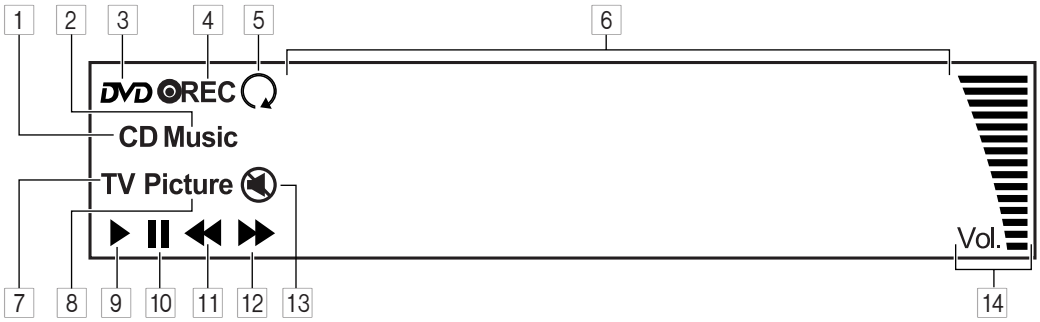
⑪ **USB ports**
These USB 2.0 ports are for connecting USB peripherals.

⑫ **IEEE1394 (DV) port**
This port is for connecting computer peripherals and camcorders that support IEEE 1394. The NVS-7.7 does not supply power to the device connected to this port.

Note that this port may not support all of the functionality of all IEEE 1394-capable devices.

⑬ **Keyboard Reset button**
Used to reset the keyboard.

Display



Depending on the program being used, some indicators may not light up correctly.

1 **CD indicator**
Lights up when playing a CD.

2 **Music indicator**
Lights up when playing music stored on the NVS-7.7.

3 **DVD indicator**
Lights up when playing a DVD.

4 **REC indicator**
Lights up when recording a TV program.

5 **Repeat indicator**
Lights up when using repeat playback.

6 **Message area**
Various information is displayed here.

7 **TV indicator**
Lights up when watching live TV.

8 **Picture indicator**
Lights up when viewing pictures.

9 **Play indicator**
Lights up for playback.

10 **Pause indicator**
Lights up when playback or recording is paused.

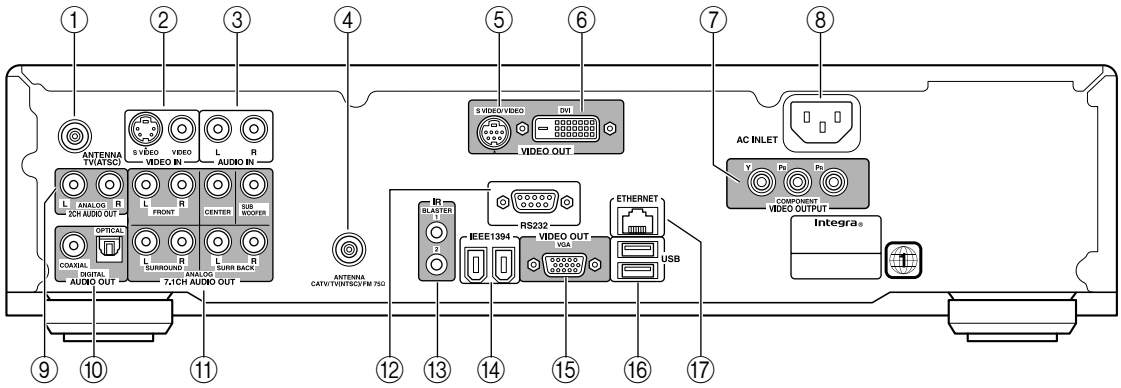
11 **Rewind indicator**
Lights up when rewinding.

12 **Fast Forward indicator**
Lights up when fast forwarding.

13 **Mute indicator**
Lights up while the sound is muted.

14 **Volume indicator**
Shows the volume level.

Rear Panel



For detailed information, see the pages in parentheses.

① **ANTENNA TV (ATSC) (26)**
To receive digital terrestrial TV, connect to this jack.

② **VIDEO IN S VIDEO/VIDEO (27)**
These S-Video and composite video inputs are for connecting a cable or satellite set-top box.

③ **AUDIO IN L/R (27)**
This analog audio input is for connecting a cable or satellite set-top box.

④ **ANTENNA CATV/TV(NTSC)/FM 75Ω (26, 27)**
To receive cable TV, analog terrestrial TV, or FM radio, connect to this jack. Use a combiner or splitter if necessary.

⑤ **VIDEO OUT S VIDEO/VIDEO (29)**
This S-Video output is for connecting a display with an S-Video input or composite video input with the supplied S-Video/composite video cable. We recommend that you use the S-Video plug if your display has an S-Video input.

⑥ **DVI VIDEO OUT (28)**
This DVI video output is for connecting a display with a DVI input.

⑦ **COMPONENT VIDEO OUTPUT (29)**
This RCA component video output is for connecting a display with an RCA component video input.

⑧ **AC INLET (33)**
The supplied power cord connects here.

⑨ **ANALOG 2CH AUDIO OUT L/R (31)**
This analog audio output is for a 2-channel analog audio connection to your AV receiver. It uses the onboard VLSC Vector Linear Shaping Circuitry. With this connection, the volume level is set solely on the AV receiver.

⑩ **COAXIAL/OPTICAL DIGITAL AUDIO OUT (30)**
These coaxial and optical digital audio outputs are for a digital audio connection to your AV receiver. They support up to 5.1-channels. With this connection, the volume level is set solely on the AV receiver.

⑪ **ANALOG 7.1CH AUDIO OUT (31)**
These FRONT L/R, SURROUND L/R, SURR BACK L/R, CENTER, and SUBWOOFER jacks are for a 7.1- or 5.1-channel analog audio connection to your AV receiver. With this connection, the volume level can be set on the NVS-7.7 *and* AV receiver.

⑫ **RS232 port**
This port is for connecting the NVS-7.7 to automation and external controllers.

⑬ **IR BLASTER 1/2 (32)**
By affixing a commercially available IR emitter to your cable or satellite set-top box, you can use the NVS-7.7's remote controller to change TV channels.

⑭ IEEE1394 ports

These ports are for connecting computer peripherals that support IEEE 1394. The NVS-7.7 can supply power to devices connected to these ports.

Note that these ports may not support all of the functionality of all IEEE 1394-capable devices.

⑮ VGA VIDEO OUT port (28)

This VGA video output is for connecting a display with a VGA input.

⑯ USB ports

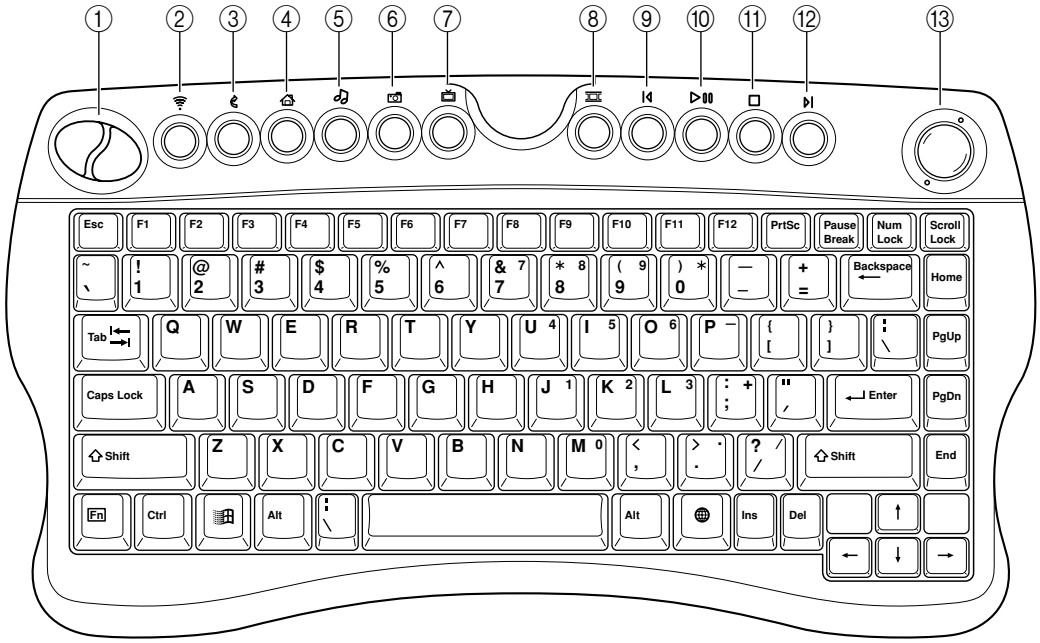
These USB 2.0 ports are for connecting USB peripherals.

⑰ ETHERNET port (32)

This Ethernet port is for connecting a cable/DSL modem or home network router for networking and Internet access.

Keyboard

Keyboard Buttons



For detailed information, see the pages in parentheses.

① **Left and Right mouse buttons**
These buttons work just like the left and right buttons on a computer mouse.

② **Transmit button (33)**
Used to turn on the keyboard.

③ **Back button**
Goes back to the previous Media Center screen.

④ **Home button (35)**
Displays the Media Center Start menu.

⑤ **Music button**
Opens My Music.

⑥ **Photo button**
Opens My Pictures.

⑦ **TV button**
Opens My TV.

⑧ **Movie button**
Open My Videos.

⑨ **Replay button**
Selects the previous track or chapter. During playback it selects the beginning of the current track or chapter.

⑩ **Play/Pause button**
Starts or pauses playback, including recorded TV or live TV.

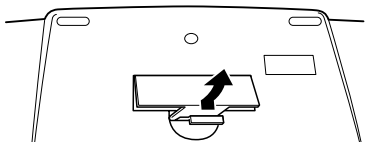
⑪ **Stop button**
Stops playback or recording.

⑫ **Skip button**
Selects the next track or chapter.

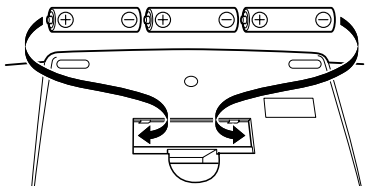
⑬ **Trackball**
Used to move the cursor and to navigate the Media Center menus.

Installing the Batteries

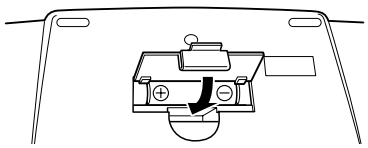
1 **To open the battery compartment, press the small lug and remove the cover.**



2 **Insert the three supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment.**



3 **Replace the cover.**



Notes:

- If the keyboard doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the keyboard for a long time, remove the batteries to prevent damage from leakage or corrosion.
- Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion.

Using the Keyboard

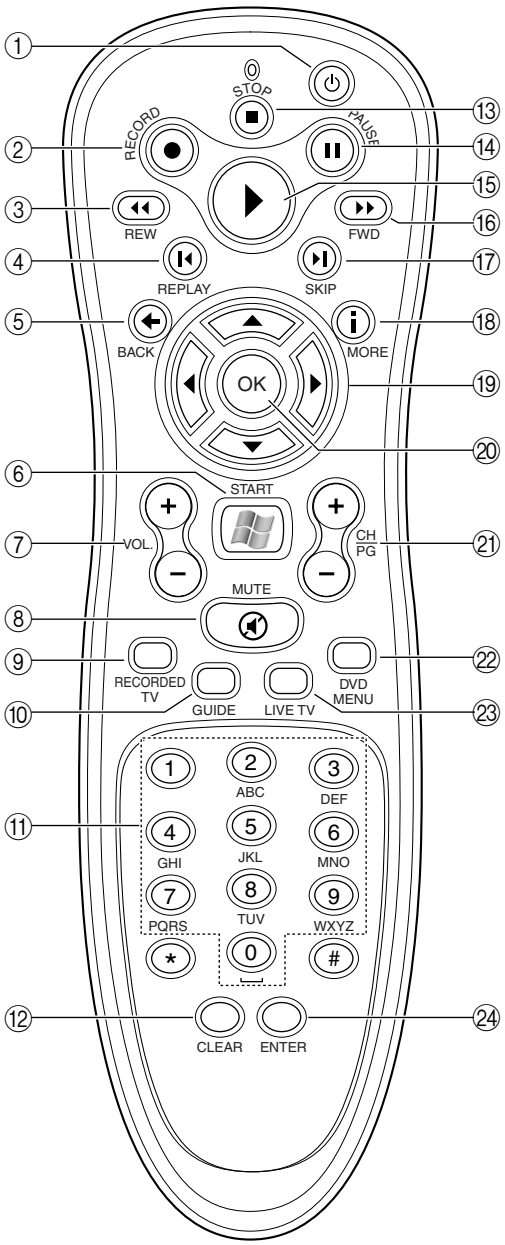
The wireless keyboard uses radio signals (RF) to communicate with the NVS-7.7 so you don't have to aim it at the NVS-7.7 when you use it.

Notes:

- The operating range for the wireless keyboard is up to approximately 20 feet (7 m), although, this will depend on the environment in which it's used. If the keyboard doesn't work reliably, try moving it closer to the NVS-7.7, or press the Transmit [ ] button.
- Even within the operating range there may be some areas (dead spots) where the keyboard doesn't work reliably. This is a characteristic of RF signals and is not a malfunction. If this occurs, move the keyboard.
- Don't put anything on top of the keyboard, such as a book or magazine, because a button may be pressed continuously, thereby draining the batteries.

Remote Controller

Remote Controller Buttons



For detailed information, see the pages in parentheses.

① **Standby/On [⏻] button (40)**
Sets the Media Center to On or Standby. The Media Center will still perform scheduled activities such as TV recording in Standby mode.

② **RECORD [●] button**
Starts TV recording.

③ **REW [◄◄] button**
Rewinds movies, music, or other media.

④ **REPLAY [I◄] button**
Selects the previous track or chapter. During playback it selects the beginning of the current track or chapter.

⑤ **BACK [←] button**
Goes back to the previous Media Center screen.

⑥ **START button (35)**
Displays the Media Center Start menu.
Note: You can also display this menu from the Windows® desktop by clicking the green Media Center icon in the Start menu.

⑦ **VOL +/– button**
Adjusts the volume level.

Note: If your AV receiver is connected to the 2CH AUDIO OUT L/R jacks or a DIGITAL AUDIO OUT jack, this button has no effect and you must adjust the volume level on the AV receiver.

⑧ **MUTE button**
Mutes or unmutes the sound. The note for the VOL button above also applies to this button.

⑨ **RECORDED TV button**
Displays the Recorded TV menu.

⑩ **GUIDE button**
Displays the TV guide.

⑪ **Number buttons**
Used to enter numbers to select TV channels or enter text in a Media Center search or text box.

⑫ **CLEAR button**
Cancels your previous selection (works like the backspace key on a computer keyboard).

⑬ **STOP [■] button**
Stops playback or recording.

⑭ **PAUSE [▮▮] button**
Pauses playback or recording.

⑮ **Play [►] button**
Starts playback.

⑯ **FWD [►►] button**
Fast forwards movies, music, or other media.

⑰ **SKIP [►▮] button**
Selects the next track or chapter.

⑱ **MORE information button**
Displays information about the selected item.

⑲ **Arrow [▲]/[▼]/[◄]/[►] buttons**
Used to move the cursor and navigate the Media Center menus.

⑳ **OK button**
Confirms the desired action or selection.

㉑ **CH/PG +/– button**
Changes the TV channel or selects the next (+) or previous (–) page.

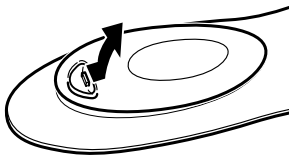
㉒ **DVD MENU button**
Displays the menu of the DVD currently playing.

㉓ **LIVE TV button**
Displays full-screen live TV.

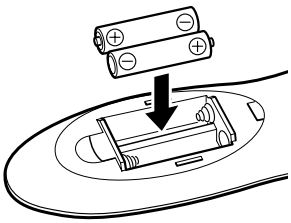
㉔ **ENTER button**
Confirms the desired action or selection (works like the [OK] button).

Installing the Batteries

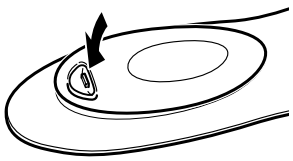
1 **To open the battery compartment, press the small lug and remove the cover.**



2 **Insert the two supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment.**



3 **Replace the cover.**

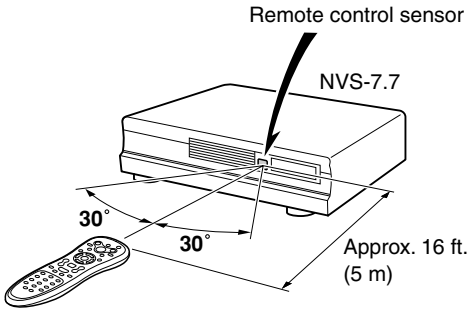


Notes:

- If the remote controller doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion.
- Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion.

Using the Remote Controller

When using the remote controller, point it toward the NVS-7.7's remote control sensor, as shown below.



Notes:

- The remote controller may not work reliably if the NVS-7.7 is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing.
- If another remote controller of the same type is used in the same room, or the NVS-7.7 is installed close to equipment that uses infrared rays, the remote controller may not work reliably.
- Don't put anything on top of the remote controller, such as a book or magazine, because a button may be pressed continuously, thereby draining the batteries.
- The remote controller may not work reliably if the NVS-7.7 is installed in a rack behind colored glass doors. Keep this in mind when installing.
- The remote controller will not work if there's an obstacle between it and the NVS-7.7's remote control sensor.

About Audio and Video Connections

- Before making any AV connections, read the manuals supplied with your other AV components.
- Don't connect the power cord until you've completed and double-checked all AV connections.

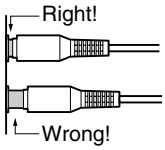
Optical Digital Jack

The NVS-7.7's optical digital jack has a shutter-type cover that opens when an optical plug is inserted and closes when it's removed. Push the plug in all the way.

Caution: To prevent shutter damage, hold the optical plug straight when inserting and removing.

RCA Audio Connections

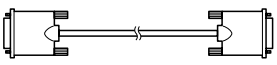
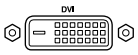
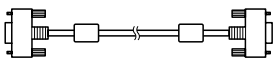
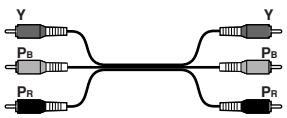
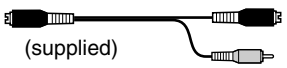
RCA-type audio connections are usually color-coded red and white. Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R"). Use white plugs to connect left-channel audio inputs and outputs (typically labeled "L").



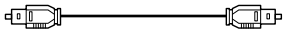
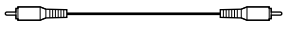
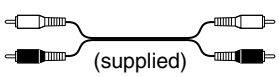
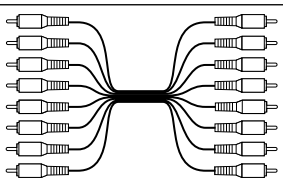
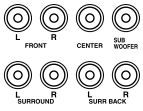
- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio and video cables away from power cords and speaker cables.

AV Cables and Jacks

Video

Cable		Jack	Description
DVI cable			This offers the best picture quality and delivers the digital video signal directly to the display.
VGA cable			This is a high-quality analog video connection and is commonly used to connect computer displays.
Component video cable			Component video separates the luminance (Y) and color difference signals (PR, PB), providing better picture quality than S-Video. (Some TV manufacturers label their component video jacks slightly differently.)
S-Video/composite cable			S-Video separates the luminance and color signals for a better picture. We recommend that you use the S-Video plug.

Audio

Cable		Jack	Description
Optical digital audio cable			This allows you to enjoy 5.1-channel Dolby Digital and DTS. The audio quality is the same as for coxial.
Coaxial digital audio cable			This allows you to enjoy 5.1-channel Dolby Digital and DTS. The audio quality is the same as for optical.
Analog audio cable (RCA)			This cable carries analog audio. It's the most common connection format for analog audio and can be found on virtually all AV components.
Multichannel analog audio cable (RCA)			This cable carries multichannel analog audio to an AV receiver. Several standard analog audio cables can be used instead of a multichannel cable.

Setup Example

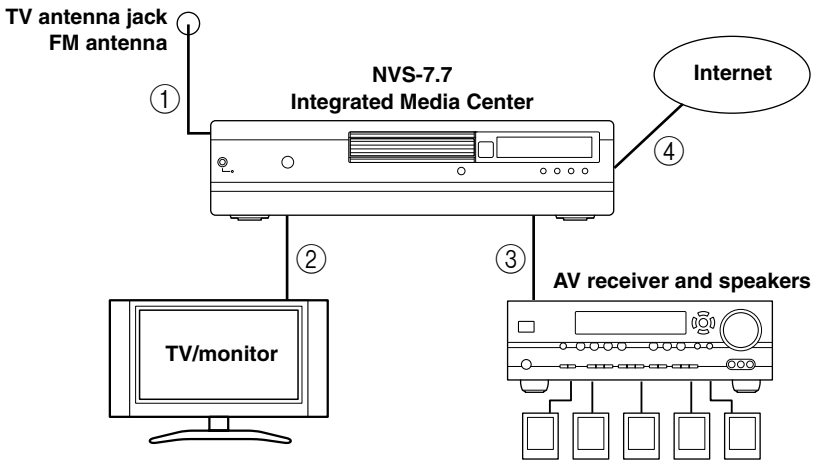
What You'll Need

- NVS-7.7
- Cable TV/TV antenna wall jack or cable/satellite set-top box
- FM antenna
- TV, monitor, or display
- AV receiver and speakers
- Internet connection

Basic Setup

With this setup, you can do the following:

- Watch or record TV by using the NVS-7.7's built-in tuner.
- Listen to FM radio by using the NVS-7.7's built-in tuner.
- Enjoy the surround-sound modes of an AV receiver.
- Download music, movies, etc., from the Internet or enjoy the Net-Tune system.



① TV/FM antenna connections

Use coaxial cables (not supplied). The built-in tuners can received the following types of signal:

- Analog CATV
- Analog terrestrial TV
- Digital terrestrial TV
- FM radio

If you have a satellite or cable set-top box, you can connect it with an S-Video or composite video connection and an analog audio connection.

② TV/monitor connection

You can connect your TV or monitor by using one of the following connection formats:

- DVI (recommended)
- VGA
- Component video
- S-Video or composite video

③ AV receiver connection

You can connect an AV receiver by using one of the following connection formats:

- Optical or coaxial (5.1-channel) digital audio (volume is controlled on the AV receiver)
- 7.1/5.1-channel analog audio
- 2-channel analog audio (volume is controlled on the AV receiver)

④ Internet connection

You can connect the NVS-7.7 to your cable/DSL modem or home network router by using the supplied LAN cable.

Getting Started

Use the following checklist as a guide for getting started with the NVS-7.7 Media Center PC.

Do not connect the power cord until you have completed all other connections.

Step 1:	Place the NVS-7.7 in a Well Ventilated Area (see below)
Step 2:	Connect the TV Signal Source (see page 26) (cable/terrestrial TV antenna or cable/satellite set-top box)
Step 3:	Connect an FM Antenna (see page 27)
Step 4:	Connect Your TV or PC Monitor (see page 28)
Step 5:	Connect Your AV Receiver (see page 30)
Step 6:	Connect an IR Emitter (see page 32) (for remote channel changing on a set-top box)
Step 7:	Connect to the Internet (see page 32)
Step 8:	Turn On the NVS-7.7 (see page 33)
Step 9:	Complete the Windows® Setup Wizard (see page 34)
Step 10:	Start Media Center (see page 35)
Step 11:	Complete the Media Center Setup Wizard (see page 36)
Step 12:	Activate PowerDVD (see page 37)
Step 13:	Enable 5.1-channel Digital Audio Output (see page 38)
Step 14:	Enable 5.1-channel Analog Audio Output (see page 39)

Step 1: Place the NVS-7.7 in a Well Ventilated Area

- The rear of the NVS-7.7 must be at least 12 inches (30 cm) away from the wall.
- Do not block any air vents and do not place another component directly on top of the NVS-7.7.
- If placed in a cabinet, make sure there is a 3-inch (8 cm) ventilation space at the back and front of the cabinet.
- Place the NVS-7.7 at the bottom of the cabinet.
- The NVS-7.7 must be positioned horizontally. Do not use it vertically or upside down.

Tip:

The Windows® product key is attached to the side of the NVS-7.7. We recommend that you make a note of it before installing the NVS-7.7.

Windows® Product Key: _____ - _____ - _____ - _____ - _____

Step 2: Connect the TV Signal Source

This section explains how to connect TV signal sources to the NVS-7.7.

The options are as follows:

Option 1: TV coaxial connection

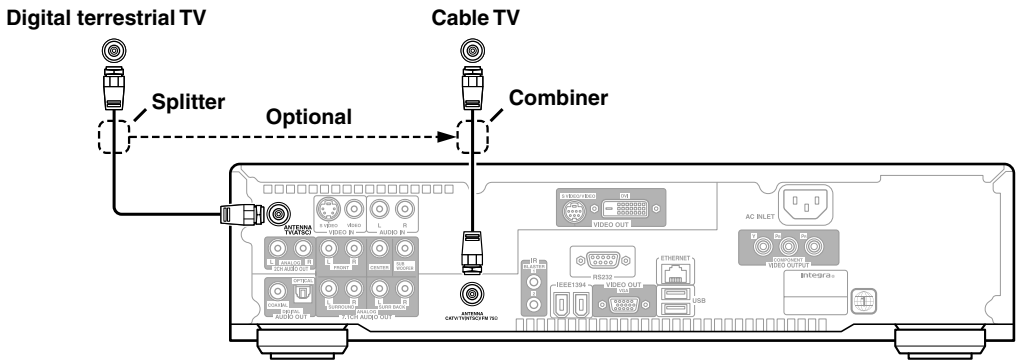
Option 2: Cable or satellite set-top box

Use option #1 to connect a direct cable, antenna, or both. Use option #2 if you have a set-top box.

Notes:

- You cannot use option #1 and option #2 simultaneously. Connect one or the other.
- When you want to watch cable/satellite subscription channels, use option #2.

Option 1: TV Coaxial Connection

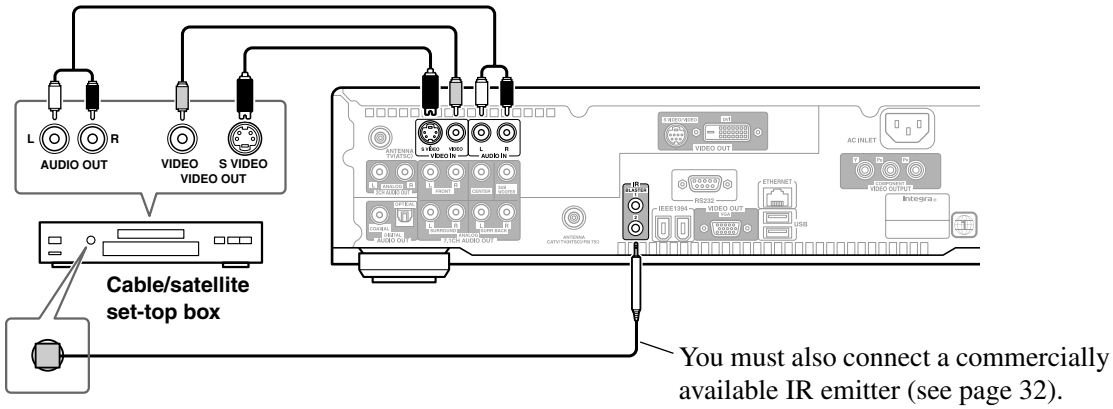


- **Cable TV (CATV)**
  This allows you to receive analog cable TV. If you want to watch digital cable TV, you'll need a separate set-top box.
- **Antenna (Digital Terrestrial)**
  Make this connection if you have a digital terrestrial jack.
- **Option (Analog Terrestrial)**
  If you're using a separate rooftop antenna to receive additional channels that are not available from your cable provider, use a commercially available splitter or distribution box to distribute the TV antenna signal and connect to the CATV/TV(NTSC)/FM jack.

Option 2: Cable or Satellite Set-top Box

If you have a cable or satellite set-top box, use an S-Video cable (recommended) or composite video cable to feed the video signal to the NVS-7.7's S VIDEO or VIDEO IN.

You'll also need to connect an audio cable from the set-top box's audio output jacks to the AUDIO IN L/R jacks on the NVS-7.7.

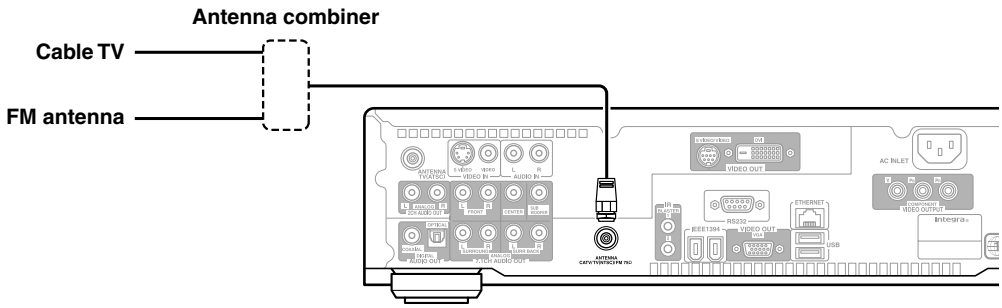


Notes:

- Connecting a cable or satellite set-top box to the NVS-7.7 with a coaxial cable (RF) is not recommended because passing the TV signal through the set-top box's tuner may degrade the picture quality.
- The quality of the cable used to connect the video source to the NVS-7.7 can affect the picture quality, so use the best quality video cables you can afford.
- With this connection, you must configure the TV settings in the Media Center Setup Wizard (see page 36).

Step 3: Connect an FM Antenna

To listen to FM radio, connect an indoor or outdoor FM antenna to the CATV/TV(NTSC)/FM jack. if you already have a TV antenna or cable connected to this jack, use a commercially available antenna combiner.



Step 4: Connect Your TV or PC Monitor

This section explains how to connect your TV or PC monitor to the NVS-7.7.

The options are as follows:

Option 1: DVI connection

Option 2: VGA connection

Option 3: Component video connection

Option 4: S-Video or composite video connection

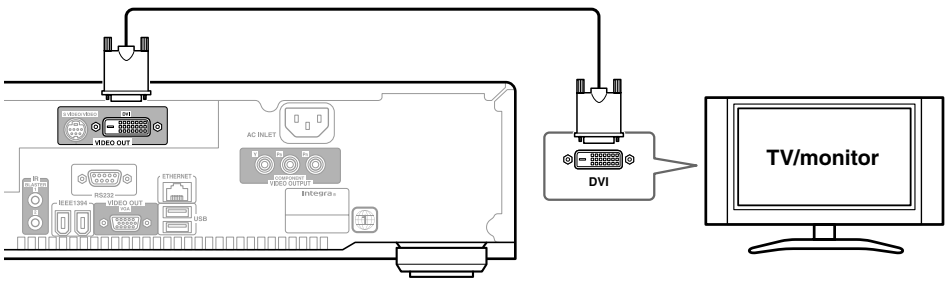
We recommend that you use option #1, DVI, because it offers the best picture quality. If your TV doesn't have a DVI port, use option #2, VGA.

You only need to connect one video display to the NVS-7.7. For the best viewing experience, use a high-resolution display, such as plasma display, LCD TV, LCD projector, and so on.

Note:
The NVS-7.7 cannot output composite video, S-Video, and component video simultaneously. Use only one video connection.

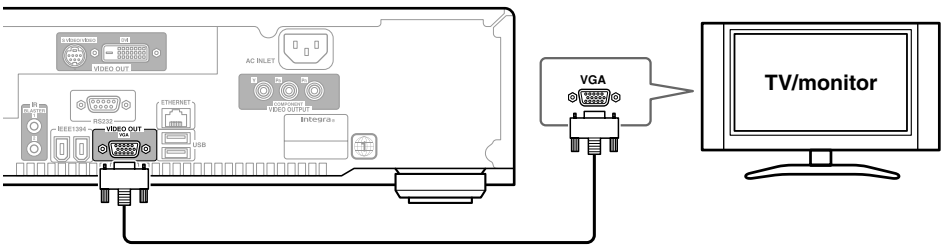
Option 1: DVI Connection (recommended)

Connect a DVI cable (not included) from the NVS-7.7's DVI VIDEO OUT to a DVI input on your display.



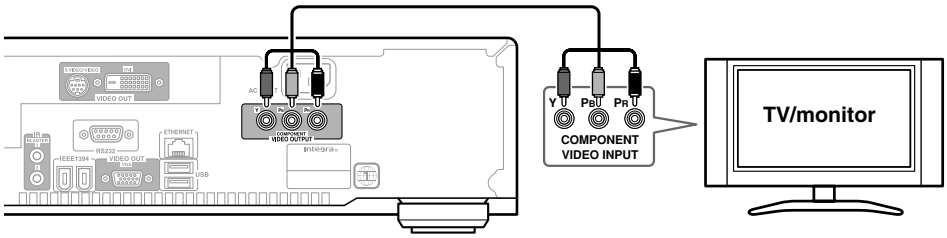
Option 2: VGA Connection

Connect a VGA cable (not included) from the NVS-7.7's VGA VIDEO OUT port to a VGA input on your display.



Option 3: Component Video Connection

Connect a component video cable (not included) from the NVS-7.7's COMPONENT VIDEO OUTPUT to a component video input on your display.



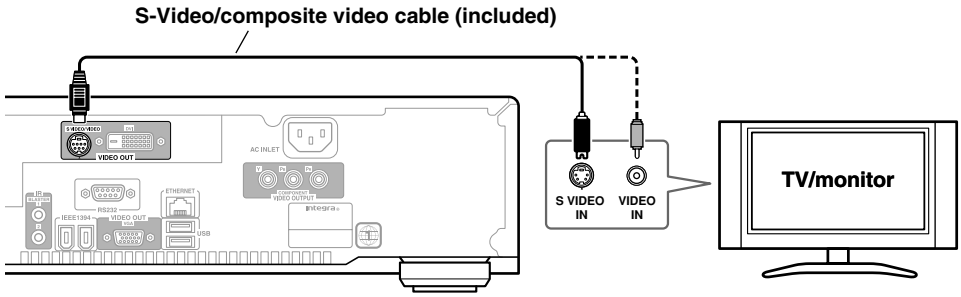
Option 4: S-Video Connection

Use this option if your display only supports S-Video or composite video.

Connect the supplied S-Video/composite video cable from the NVS-7.7's S VIDEO/VIDEO OUT to an S-Video (recommended) or composite video input on your display.

Notes:

- When connecting the supplied S-Video/composite video cable to the NVS-7.7's S VIDEO/VIDEO OUT jack, be sure you connect the end with the single 7-pin plug.
- The NVS-7.7 cannot output composite video and S-Video simultaneously. If you connect both the composite video and S-Video plugs, S-Video will have priority.
- If you connect to the component video output, composite video and S-Video is not output.



Step 5: Connect Your AV Receiver

This section explains how to connect your AV receiver or audio system to the NVS-7.7.

Choose one of the following options:

Option 1: Digital audio connection (5.1-channel)

Option 2: 7.1/5.1-channel analog audio connection

Option 3: VLSC 2-channel analog audio connection

Use option #1 when you want to enjoy the Dolby Digital and DTS listening modes.

Use option #2 when you want to make an analog multichannel connection to your AV receiver or when you want to enjoy DVD-Audio.

Option #3 uses the built-in Onkyo VLSC Vector Linear Shaping Circuitry. Use it when you want to listen to 2-channel analog audio with the very best sound quality or listen through your TV.

Notes:

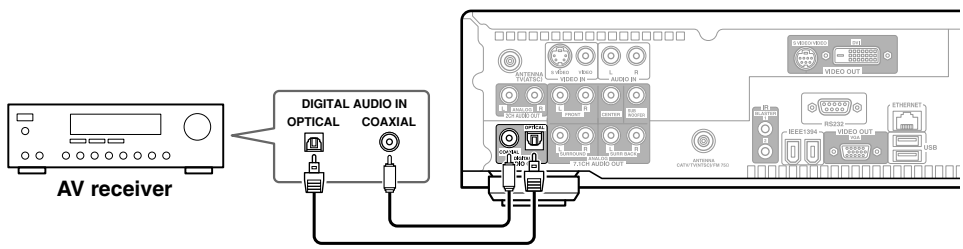
- Option #1 does not support 7.1-channel playback.
- Option #3 does not support SigmaTel Audio functions such as Dolby Virtual Speaker and Dolby Headphone.

Option 1: Digital Audio Connection (5.1-channel)

This is the simplest way to connect your audio system for 5.1-channel playback. Connect an optical or coaxial digital audio cable from the NVS-7.7's OPTICAL or COAXIAL DIGITAL AUDIO OUT to an optical or coaxial digital audio input on your AV receiver.

Notes:

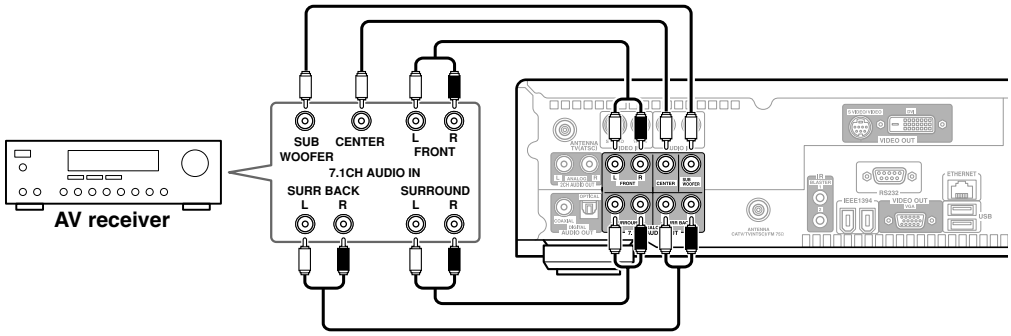
- With this connection, the volume level is controlled on the AV receiver.
- To enjoy Dolby Digital and DTS, you must change a setting (see page 38).



Option 2: 7.1/5.1-Channel Analog Audio Connection

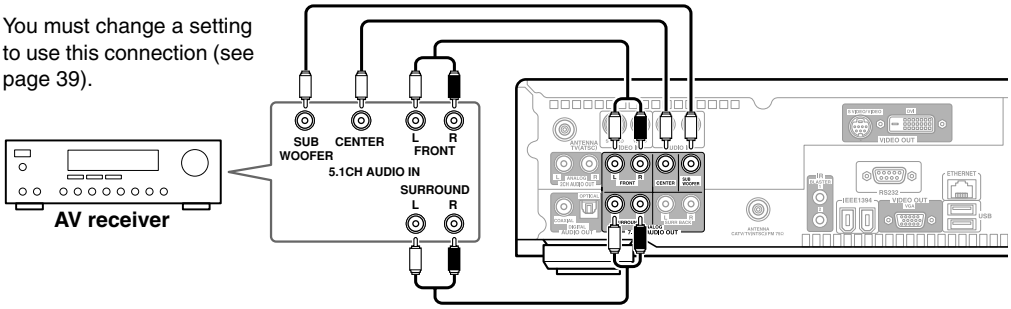
Use a multichannel analog audio cable or several normal audio cables (one included) to connect the NVS-7.7's FRONT L/R, SURROUND L/R, SURR BACK L/R, CENTER, and SUBWOOFER jacks to the 7.1-channel analog audio input on your AV receiver.

- **7.1-channel connection**



- **5.1-channel connection**

You must change a setting to use this connection (see page 39).



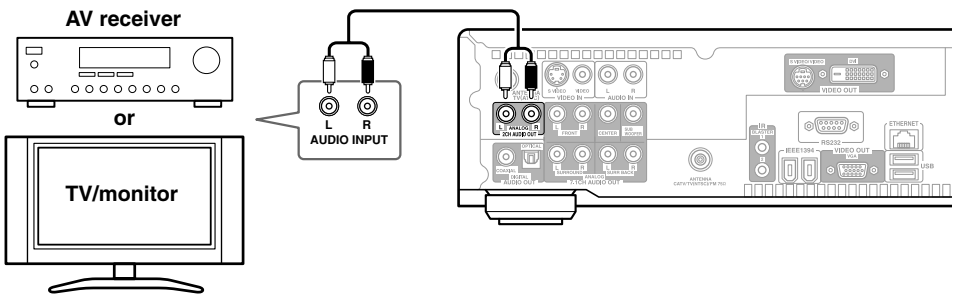
For a 5.1-channel connection, use the FRONT L/R, SURROUND L/R, CENTER, and SUBWOOFER jacks.

Note: With this connection, the volume level is controlled by the NVS-7.7 *and* AV receiver.

Option 3: VLSC 2-Channel Analog Connection

The NVS-7.7's onboard VLSC Vector Linear Shaping Circuitry has its own dedicated 2-channel analog audio output. Use this connection when you want to listen to 2-channel analog audio with the very best sound quality. Use the supplied audio cable to connect the NVS-7.7's ANALOG 2 CH AUDIO OUT L/R jacks to an analog audio input on your AV receiver or TV.

Note: With this connection, the volume level is controlled on the AV receiver.



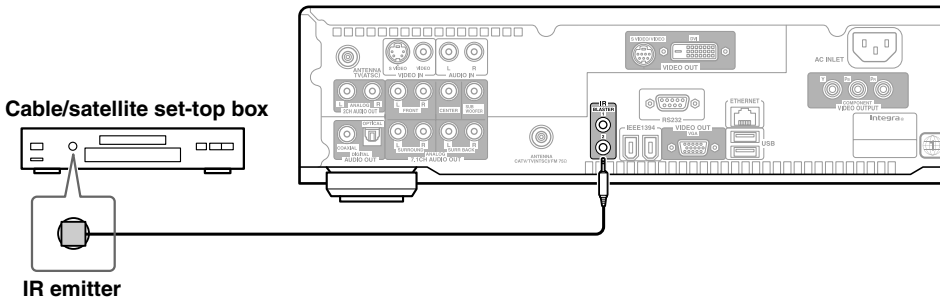
Step 6: Connect an IR Emitter

If you connect a cable or satellite set-top box to the NVS-7.7, you must also connect a commercially available IR emitter.

Setting Up the IR Emitter

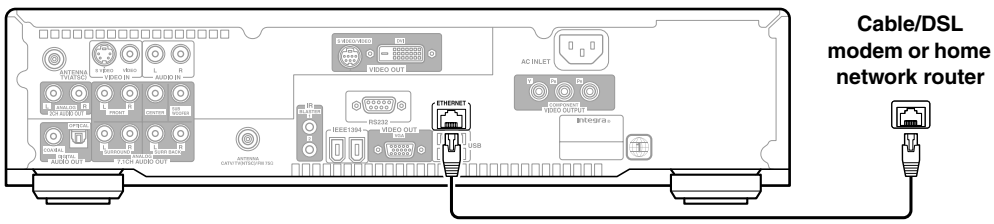
1. Affix the IR emitter over the remote control sensor on your cable or satellite set-top box.
2. Connect the IR emitter to the NVS-7.7's IR BLASTER 1 or 2 jack.

Note: You'll need to go to the Media Center Settings menu to configure the NVS-7.7's remote controller to control your set-top box.

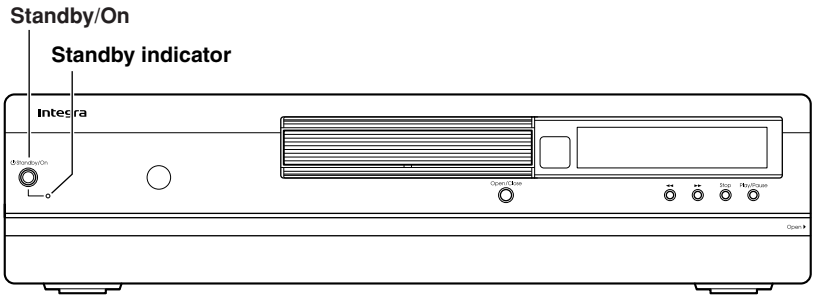


Step 7: Connect to the Internet

Use the supplied LAN cable to connect the NVS-7.7's ETHERNET port to a LAN port on your cable/DSL modem or home network router.



Step 8: Turn On the NVS-7.7



Turn on your system components in the following order:

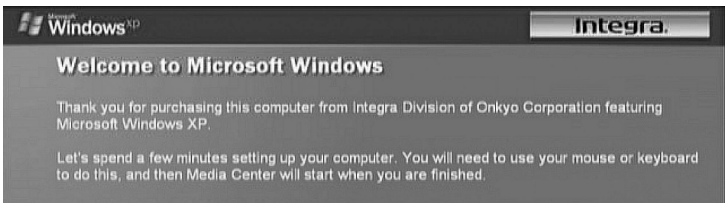
1		**Connect the supplied power cord to the NVS-7.7's AC INLET, and then connect the other end to a suitable wall outlet. (We recommended that you use a power surge protector.)**
2		**Turn on your display (TV or computer monitor).** Always turn on your TV or display before turning on the NVS-7.7, otherwise the picture may not appear.
3		**Press the NVS-7.7's Standby/On button.** The Standby indicator goes off.
4		**Turn on your audio system.**
5		**To turn on the wireless keyboard, press its Transmit button.** To conserve battery power, the keyboard will automatically switch to Standby mode when it's not used for a while and pressing the keys will have no effect. In this case, press the Transmit button to turn it on again.

Notes:

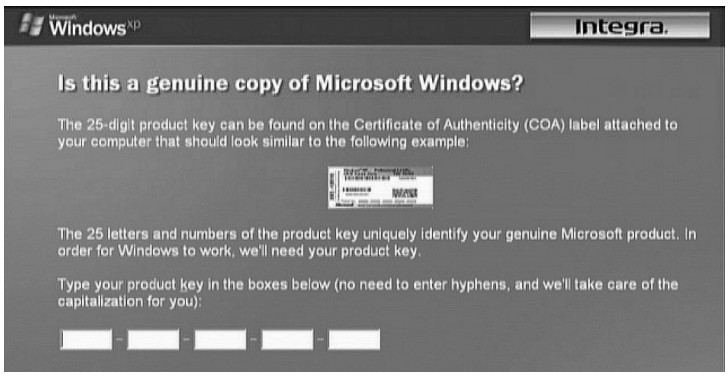
- Before connecting the power cord, connect all of your AV components.
- Turning on the NVS-7.7 may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the NVS-7.7 into a different branch circuit.
- Do not use a power cord other than the one supplied with the NVS-7.7. The supplied power cord is designed exclusively for use with the NVS-7.7 and should not be used with any other equipment.
- Never disconnect the power cord from the NVS-7.7 while the other end is still plugged into a wall outlet. Doing so may cause an electric shock. Always disconnect the power cord from the wall outlet first, and then the NVS-7.7.

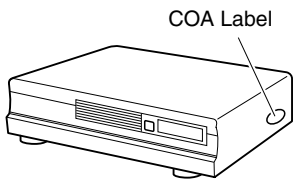
Step 9: Complete the Windows® Setup Wizard

The Windows® Setup Wizard will appear the very first time you turn on the NVS-7.7. Follow the Windows® Setup Wizard's onscreen instructions to set the date, time, and other basic settings.


Windows xp
Integra
Welcome to Microsoft Windows
Thank you for purchasing this computer from Integra Division of Onkyo Corporation featuring Microsoft Windows XP.
Let's spend a few minutes setting up your computer. You will need to use your mouse or keyboard to do this, and then Media Center will start when you are finished.

You will be asked to enter your product key, which you can find on the Windows® Certificate of Authenticity (COA) label attached to the side of the NVS-7.7. The product key consists of 25 alpha-numeric characters divided into five parts and separated with hyphens. You do not need to enter the hyphens.


Windows xp
Integra
Is this a genuine copy of Microsoft Windows?
The 25-digit product key can be found on the Certificate of Authenticity (COA) label attached to your computer that should look similar to the following example:
The 25 letters and numbers of the product key uniquely identify your genuine Microsoft product. In order for Windows to work, we'll need your product key.
Type your product key in the boxes below (no need to enter hyphens, and we'll take care of the capitalization for you):



Activating Windows®

After turning on the NVS-7.7 for the very first time, you must activate Windows® within 30 days by using the Activation Wizard, which you can start by clicking the Windows® Activation icon in the taskbar. The wizard can also be started by clicking on the **Start** button, clicking **Run**, and entering "oobe/msoobe /a" in the dialog box.

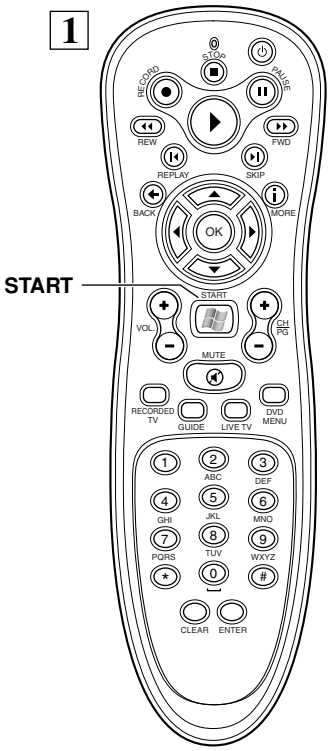
Activate Windows
Let's activate Windows
To help reduce software piracy, please activate your copy of Windows now. Activation over the Internet is quick and easy.
You don't need to give your name or other personal information when you activate Windows.
Do you want to activate Windows now?
Yes, let's activate Windows over the Internet now
Yes, I want to telephone a customer service representative to activate Windows
No, remind me to activate Windows every few days
If you wait to activate, you can still use Windows, but you will receive periodic reminders. After 30 day(s), you must activate Windows before you can continue to use it.
Microsoft is committed to your privacy. For more information, read the Windows Product Activation Privacy Statement
To continue, click Next.
Next

Step 10: Start Media Center

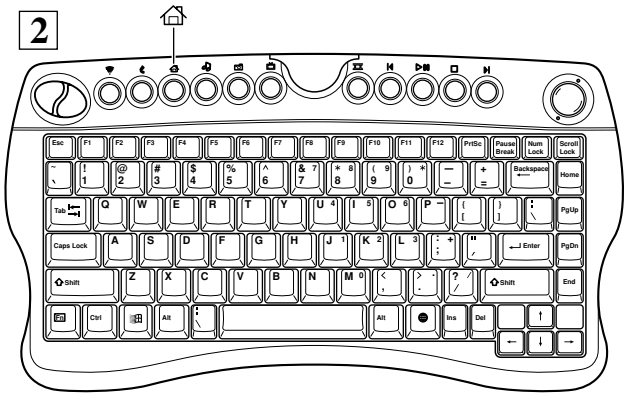
You can start Media Center in three different ways:

- Press the remote controller's START button (1).
- Press the keyboard's Home button (2).
- From the Windows® desktop, click the **Start** button, and then click **Media Center** (3).

1



2



3

Step 11: Complete the Media Center Setup Wizard

The Media Center Setup Wizard will appear the very first time you start Media Center.

Follow the Media Center Setup Wizard's onscreen instructions. Once you have completed the Setup Wizard, the Media Center's Start menu will appear.

MediaCenter
Welcome
to the Media Center setup wizard
Media Center is where you can access TV, music, pictures, videos, DVDs and more with a remote control.
Select Next to begin
Next
Cancel

Media Center Start Menu

Once you have completed the Setup Wizard, you can access Media Center's Start menu from the remote controller, keyboard, or the Windows® desktop.

Some of the Media Center's Start menu options can be accessed by using the dedicated buttons on the remote controller or keyboard.

For more information about the Start menu, refer to the following:

- The included *Media Center Instruction Manual.*
- Windows® Help (for Windows® XP Media Center Edition).
  Press F1 on the keyboard, or, from Media Center's Start menu, click **Settings**, then click **Help**.
- The Microsoft® Media Center Web site at:
  http://www.microsoft.com/windowsxp/mediacenter/ (correct as of April 2006)

Step 12: Activate PowerDVD

Before playing a DVD in Media Center, you must enter your CD key in the CyberLink PowerDVD program. In addition, to enable DVD-Audio playback, after entering your CD key and restarting, PowerDVD will automatically connect to the Internet and obtain a CPPM key code (Content Protection for Prerecorded Media), so make sure it's possible to connect to the Internet before starting PowerDVD.

You'll Need:

- PowerDVD CD key (attached to the last page of this manual)
- Internet access

1 **On the Media Center Start menu, click DVD Audio.**

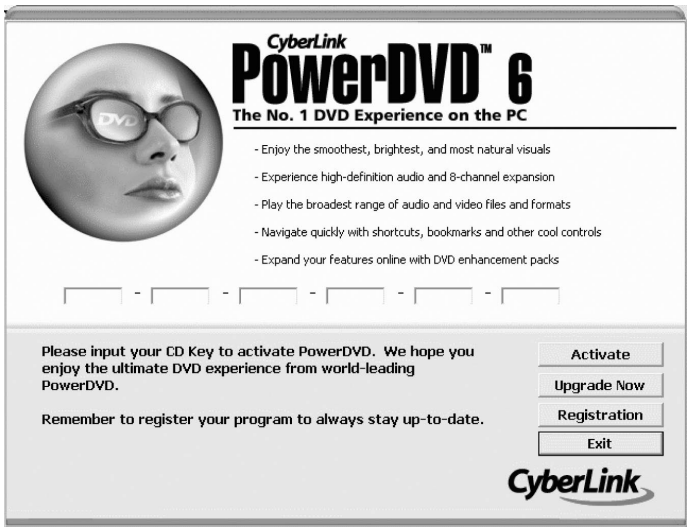
PowerDVD starts.

You can also start PowerDVD from the Windows® desktop. Click the **Start** button, click **All Programs**, and then click **PowerDVD**.

2 **Use the keyboard or the remote controller's number buttons to enter the CD key.**

Your CD key is attached to the last page of this manual.

You will be asked to enter the CD key only the very first time you start PowerDVD.


CyberLink
PowerDVD 6
The No. 1 DVD Experience on the PC
- Enjoy the smoothest, brightest, and most natural visuals
- Experience high-definition audio and 8-channel expansion
- Play the broadest range of audio and video files and formats
- Navigate quickly with shortcuts, bookmarks and other cool controls
- Expand your features online with DVD enhancement packs
Please input your CD Key to activate PowerDVD. We hope you enjoy the ultimate DVD experience from world-leading PowerDVD.
Remember to register your program to always stay up-to-date.
Activate
Upgrade Now
Registration
Exit
CyberLink

3 **Click Activate.**

4 **Repeat step 1 and restart PowerDVD to obtain a CPPM key code.**

PowerDVD automatically connects to the Internet to obtain a CPPM key code.

Step 13: Enable 5.1-channel Digital Audio Output

If you've connected the NVS-7.7 to your AV receiver with an optical or coaxial digital audio connection, to enjoy Dolby Digital and DTS, you must change the following settings for Media Center and PowerDVD.

■ Media Center Setting

1 **On the Media Center Start menu, click Settings.**
The settings menu appears.

2 **Click DVD.**
The DVD settings menu appears.

3 **Click Audio.**
The Audio settings menu appears.

4 **Select the Use SPDIF option.**

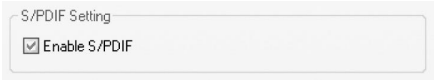
■ PowerDVD Setting

1 **On the Media Center Start menu, click DVD Audio.**
PowerDVD starts.

2 **Click Configuration.**
The settings menu appears.

3 **Click the Audio tab.**
The Audio settings menu appears.

4 **Select the Enable S/PDIF option.**



Note:
When playing a DTS CD, make sure the **Enable S/PDIF** option is deselected, otherwise noise may be produced.

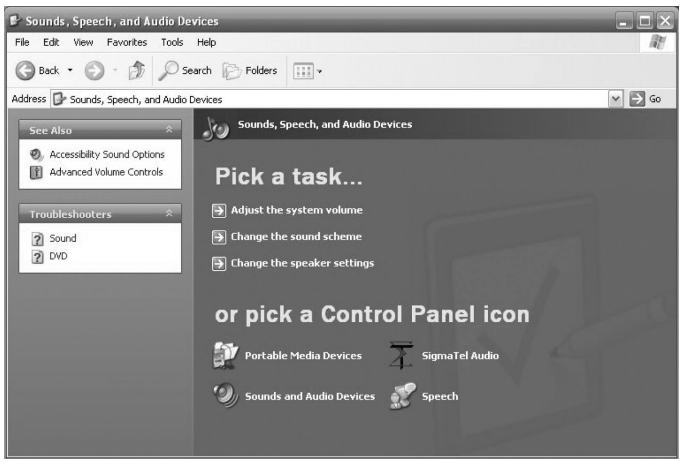
Notes:

- When the **Use SPDIF** option is set to On, or the Enable S/PDIF check box is selected, Dolby Digital and DTS audio is output by the digital audio outputs, but not the analog audio outputs.
- When set to off, Dolby Digital and DTS signals are output as PCM.
- If your TV or audio system doesn't support Dolby Digital and DTS, turn off both of these options.

Step 14: Enable 5.1-channel Analog Audio Output

If you've connected the NVS-7.7 to your AV receiver with a 5.1-channel analog audio connection, you must change the SigmaTel speaker configuration as follows.

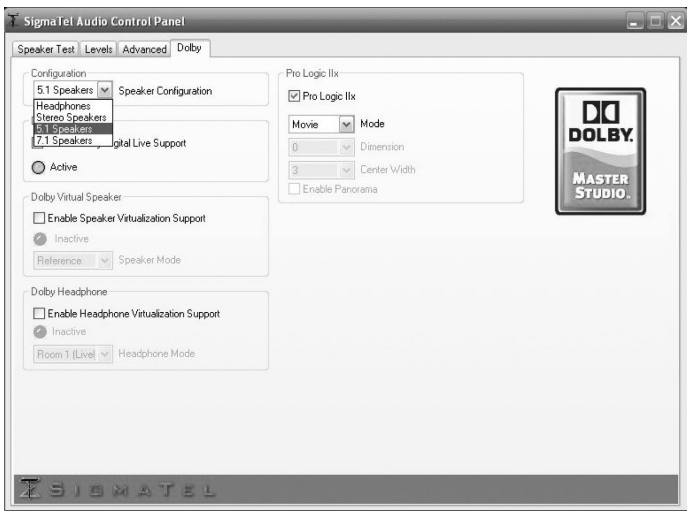
1 **Click the Start button, click Control Panel, and then click "Sounds, Speech, and Audio Devices."**



2 **Click SigmaTel Audio.**

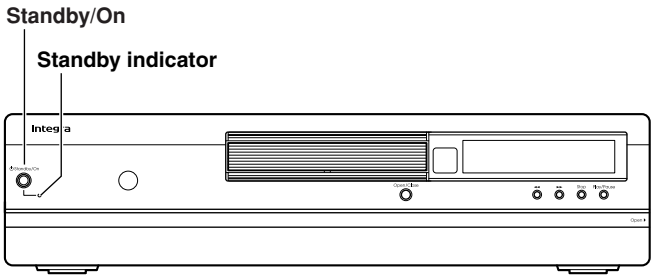
The SigmaTel Audio control panel opens.

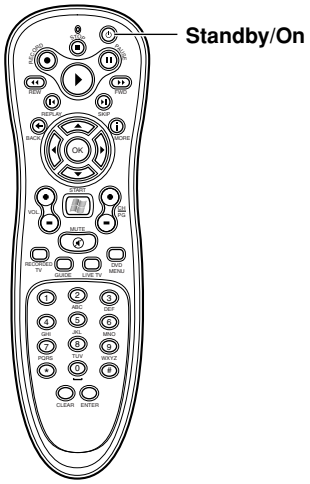
3 **Click the Dolby tab, and then select "5.1 Speakers" from the Speaker Configuration list.**



4 **Click the Close button to close the control panel.**

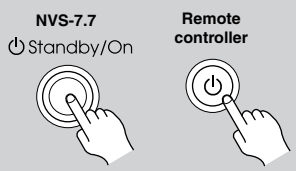
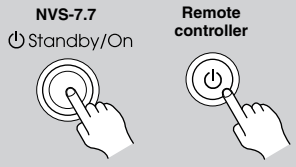
Standby Mode and Turning Off





Setting the NVS-7.7 to Standby Mode

You can set the NVS-7.7 to Standby mode by pressing the Standby/On button on the NVS-7.7 or remote controller. In Standby mode, scheduled activities such as TV recording are still performed.

1  	**Press the Standby/On button on the NVS-7.7 or remote controller.** The NVS-7.7 switches to Standby mode and the Standby/On indicator lights up red. The display remain on in Standby mode.
2  	**To turn the NVS-7.7 on again, press the Standby/On button on the NVS-7.7 or remote controller.** The NVS-7.7 comes on and the Standby/On indicator goes off.

Note:
If the NVS-7.7 is not used for a while, it will automatically switch to Standby mode. In this case, press the Standby/On button on the NVS-7.7 or remote controller to resume operation.

Caution!
Do not disconnect the power cord plug while the NVS-7.7 is on Standby.

Reducing Power Consumption in Standby Mode

The NVS-7.7 will consume the same amount of power in Standby mode as it does when it's on. To reduce power consumption in Standby mode, from the Windows® desktop, click the **Start** button, click **Turn Off Computer**, and then click **Standby**.

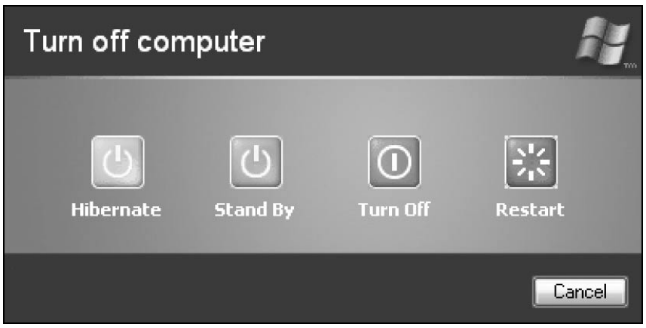
Caution!
Do not disconnect the power cord plug while the NVS-7.7 is on Standby.

Turning off the NVS-7.7

You can turn off the NVS-7.7 as follows. When the NVS-7.7 is turned off, scheduled activities such as TV recording will not be performed.

1 **From the Windows® desktop, click the Start button, click Turn Off Computer, and then click Turn Off.**

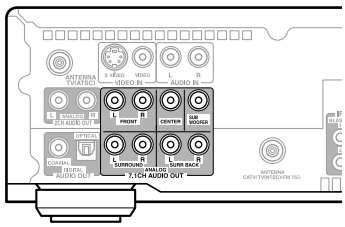
The NVS-7.7 turns off and the Standby/On indicator lights up orange.



Advanced Audio Output Settings

Multichannel Output Settings

If you connect the NVS-7.7's ANALOG 7.1CH AUDIO OUT to your AV receiver, you can use the SigmaTel Audio control panel to configure the speaker settings. These settings only apply to the multichannel ANALOG 7.1CH AUDIO OUT. You only need to change these settings if your AV receiver doesn't have its own speaker configuration settings.



■ Open the SigmaTel Audio Control Panel

1 **Click the Start button, click Control Panel, and then click Sounds, Speech, and Audio Devices.**

2 **Click SigmaTel Audio.**

The SigmaTel Audio control panel opens.

■ Speaker Test Settings

1 **Click the Speaker Test tab.**

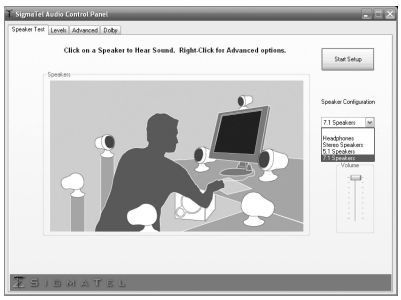
2 **From the Speaker Configuration pop-up menu, select the configuration that matches your speakers:**

7.1 Speakers: Select this if your AV receiver is connected with a 7.1-channel connection.

5.1 Speakers: Select this if your AV receiver is connected with a 5.1-channel connection.

Stereo Speakers: Select this if your AV receiver or TV is connected to the ANALOG 7.1CH AUDIO OUT FRONT L/R jacks for a stereo connection.

Headphones: Select this to use Dolby Headphone.



3 **Right-click the subwoofer picture and make the following settings:**

Enable/Disable: Select Enable if a subwoofer is connected. Select Disable if no subwoofer is connected.

Delay: This is used to specify the subwoofer distance relative to the front speakers. If the subwoofer is closer to the listening position than the front speakers, select a + value. If it's further away than the front speakers, select a negative value.

Crossover Frequency: Specify the subwoofer's crossover frequency.

4 **Right-click each speaker in turn and make the following settings:**

Speaker Size:Based on the diameter of the speaker, select Large for speakers larger than 6-1/2" (16 cm), and select Small for smaller speakers.

Delay: This is used to specify the speaker distance relative to the front speakers. If the speaker is closer to the listening position than the front speakers, select a + value. If it's further away than the front speakers, select a negative value.

5 **Click the Start Setup button.**

A test tone is output by each speaker in turn. Make sure that all speakers output the test tone. If any speakers don't output the test tone, check the speaker connections.

■ **Speaker Level Settings**

1 **Click the Levels tab.**

2 **Use the slider to adjust the master volume.**

The slider is linked to the remote controller's VOL +/– button.

3 **Click the Speaker Volume button.**

The Speaker Volume dialog box appears, where you can adjust the individual volume level of each speaker.

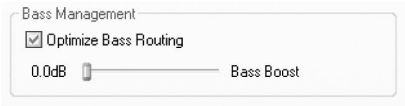
Left: Front left speaker.
Right: Front right speaker.
Center: Center speaker.
Low Frequency: Subwoofer.
Back Left: Surround back left speaker.
Back Right: Surround back right speaker.
Aux Left: Surround left speaker.
Aux Right: Surround right speaker.

■ **Bass Management**

1 **Click the Advanced tab.**

2 **If you selected Disable in the Subwoofer settings, or have changed the default speaker sizes, select the Optimize Bass Routing check box.**

3 **To emphasize the subwoofer, adjust the Bass Boost slider.**



Note:
The Enable Digital Output check box on the Advanced tab should be left selected, otherwise no digital audio will be output.

Adjusting the Volume Level by Format

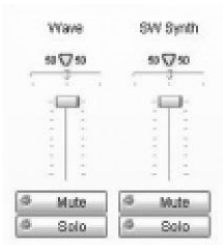
On the SigmaTel Audio control panel, you can adjust the volume level by format.

1 **Click the Levels tab.**

Wave: This adjusts the volume level of digital audio files such as WAV, MP3, and WMA. On the NVS-7.7, it also determines the volume level for CD playback.

SW Synth: This adjusts the volume level of MIDI song file playback.

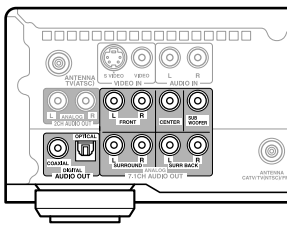
CD Player: This slider is not used on the NVS-7.7.



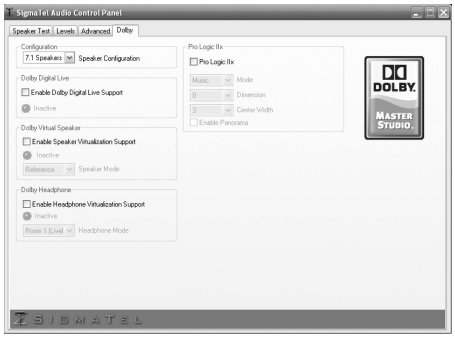
Dolby Settings

The SigmaTel Audio control panel allows you to configure the Dolby functions. Although you can fully enjoy Dolby Digital with the default settings, you can fine tune them as you like.

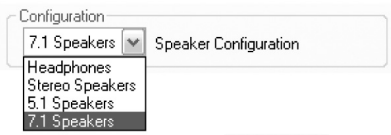
Note:
The Dolby functions only work with the DIGITAL AUDIO OUT jacks and the ANALOG 7.1CH AUDIO OUT jacks. They do not work with the 2CH AUDIO OUT (VLSC) jacks.



Click the Dolby tab.



■ Configuration



When you connect to the ANALOG 7.1CH AUDIO OUT jacks or you want to enjoy Dolby Headphone, select the appropriate configuration from the **Speaker Configuration** pop-up menu. The configuration you select determines which of the Dolby functions are available.

7.1 Speakers: Select this if your AV receiver is connected with a 7.1-channel connection. If the **Pro Logic IIx** check box is selected, you can enjoy 7.1-channel playback from any source.

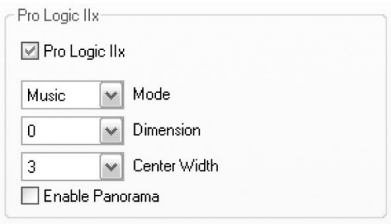
5.1 Speakers: Select this if your AV receiver is connected with a 5.1-channel connection. If the **Pro Logic IIx** check box is selected, you can enjoy 5.1-channel playback from any source.

Stereo Speakers: Select this if your AV receiver or TV is connected to the ANALOG 7.1CH AUDIO OUT FRONT L/R jacks for a stereo connection. If the **Enable Speaker Virtualization Support** option is selected, you can enjoy Dolby Virtual Speaker. (This setting has no effect on the ANALOG 2CH AUDIO OUT.)

Headphones: Select this to enjoy Dolby Headphone. If the **Enable Headphone Virtualization Support** check box is selected, you can enjoy Dolby Headphone. (Dolby Headphone has no effect on the ANALOG 2CH AUDIO OUT.)

■ Pro Logic IIx

Pro Logic IIx expands 2-channel and 5.1-channel music and movies for 7.1-channel playback. It provides a natural and seamless surround-sound experience that fully envelops the listener.



Pro Logic IIx

To turn on the Pro Logic IIx function, select the **Pro Logic IIx** check box.

Mode

Select Movie mode when watching a movie (DVD, VHS, TV, etc). Select Music mode when listening to music (CD, radio, TV, etc).

Dimension

With the Dimension setting, you can move the soundfield forward or backward. With 0 being the base point, selecting a positive value moves the soundfield forward, while selecting a minus value moves it backward. If the stereo image feels too wide or there's too much surround sound, move the soundfield forward to improve the balance. Conversely, if the stereo image feels like it's in mono or there's not enough surround sound, move the soundfield backward.

Center Width

With the Center Width setting, you can adjust the width of the center channel sound. By feeding some of the center channel signal to the front left and right speakers, the weight of the center channel sound can be controlled. With higher settings, the center channel signal is fed mostly to the front left and right speakers, for a wider sound.

Enable Panorama

With the Panorama function, you can create a seamless, wraparound sound from the front left and right speakers that fully envelops the listener.

To turn on the Panorama function, select the **Enable Panorama** check box.

■ Dolby Digital Live

Dolby Digital Live converts computer and game WMA, WMV, and other digital audio into Dolby Digital so that it can be output digitally.

(Dolby Digital Live only works with the DIGITAL AUDIO OUT jacks.)

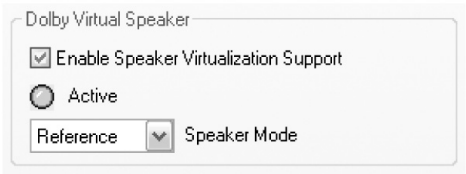
Enable Dolby Digital Live Support

To turn on the Dolby Digital Live function, select the **Enable Dolby Digital Live Support** check box. To use Dolby Digital Live, the Pro Logic IIx check box must be selected.

■ Dolby Virtual Speaker

With Dolby Virtual Speaker, you can enjoy 5.1-channel surround sound even with only two speakers.

(Dolby Virtual Speaker only works with the ANALOG 7.1CH AUDIO OUT FRONT L/R jacks.)



Enable Speaker Virtualization Support

To use the Dolby Virtual Speaker function, select **Stereo Speakers** from the **Speaker Configuration** pop-up menu, and turn on the **Enable Speaker Virtualization Support** check box.

Speaker Mode

The Speaker Mode can be set to Reference or Wide. In Reference mode, the width of the front-sound image is determined by the distance between the front left and right speakers. In Wide mode, the front sound image is widened to provide a more spacious surround sound.

■ Dolby Headphone

With Dolby Headphone, you can enjoy 5.1-channel surround sound in your headphones.

Enable Headphone Virtualization Support

To use the Dolby Headphone function, select **Headphones** from the **Speaker Configuration** pop-up menu, and select the **Enable Headphone Virtualization Support** check box.

Headphone Mode

The Headphone mode can be set to Reference, Room 1 (Lively), or Room 2 (Large).

System Recovery

If the NVS-7.7 or the preinstalled software is operating unreliably or connected peripherals don't work as expected and it becomes necessary to reinstall the system software, you can perform a system recovery. The NVS-7.7 comes with the SoftThink System Recovery software preinstalled.

> ***Important—Back up your important data before continuing***
> Before performing a system recovery, back up your important data, such as your digital music files, photos, mail, and so on.

System Recovery Types

There are two types of system recovery: *Nondestructive* and *Quick Format.*

1. Nondestructive System Recovery
With a Nondestructive System Recovery, the operating system, drivers, and preinstalled programs are restored without affecting any files that you've added.

2. Quick Format System Recovery
With a Quick Format System Recovery, the operating system, drivers, and preinstalled programs are reinstalled and any files or programs you've added are erased. Make sure that a Quick Format System Recovery is really necessary before continuing.

Nondestructive System Recovery

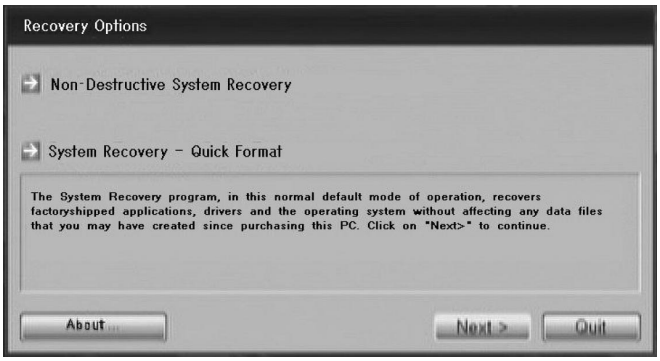
1 **Disconnect all peripherals attached to the NVS-7.7.**
To safely remove a USB device, click the Eject Hardware icon in the taskbar, and then click the **Safely Remove USB** message. When the **Safe To Remove Hardware** message appears, disconnect the USB device.

2 **Click the Start button, click All Programs, and then click System Recovery.**
The System Recovery dialog box appears.

System Recovery
Windows XP has its own built-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this System Recovery.
Microsoft System Restore
Do you really want to start System Recovery ?
Yes
No

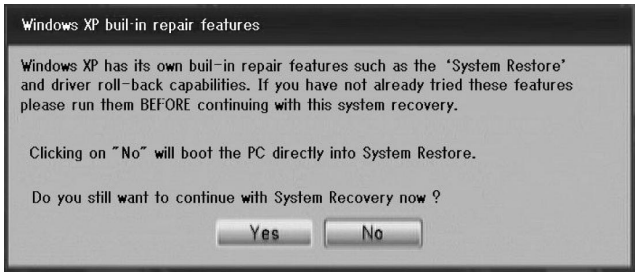
3 **Click the Yes button.**

The NVS-7.7 restarts in System Recovery mode, and then the Recovery Options dialog box appears. Read the dialog box carefully.


Recovery Options
Non-Destructive System Recovery
System Recovery - Quick Format
The System Recovery program, in this normal default mode of operation, recovers factoryshipped applications, drivers and the operating system without affecting any data files that you may have created since purchasing this PC. Click on "Next>" to continue.
About...
Next >
Quit

4 **Click Non-Destructive System Recovery, and then click the Next button.**

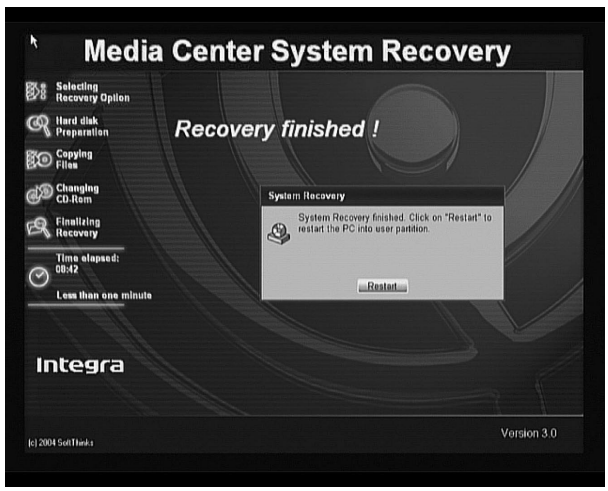
The following dialog box appears.


Windows XP buil-in repair features
Windows XP has its own buil-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this system recovery.
Clicking on "No" will boot the PC directly into System Restore.
Do you still want to continue with System Recovery now ?
Yes
No

5 **Click the Yes button to start the system recovery.**

System recovery takes about 30 minutes.

"Recovery finished!" appears when the system recovery is complete.



6 **Click the Restart button to restart the NVS-7.7.**

Quick Format System Recovery

1 **Disconnect all peripherals attached to the NVS-7.7.**

To safely remove a USB device, click the Eject Hardware icon in the taskbar, and then click the **Safely Remove USB** message. When the **Safe To Remove Hardware** message appears, disconnect the USB device.

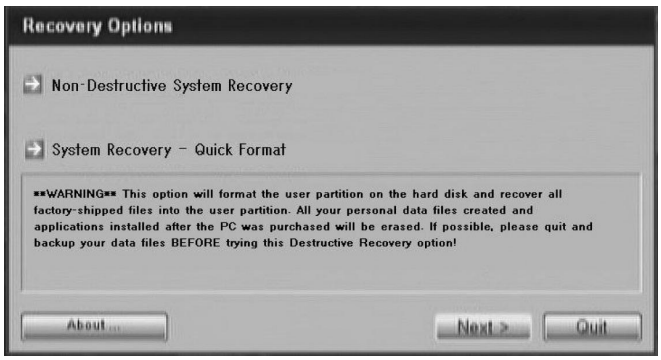
2 **Click the Start button, click All Programs, and then click System Recovery.**

The System Recovery dialog box appears.

System Recovery
Windows XP has its own built-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this System Recovery.
Microsoft System Restore
Do you really want to start System Recovery ?
Yes
No

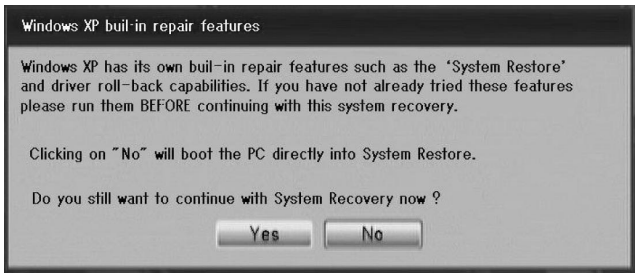
3 **Click the Yes button.**

The NVS-7.7 restarts in System Recovery mode, and then the Recovery Options dialog box appears. Read the dialog box carefully.


Recovery Options
Non-Destructive System Recovery
System Recovery - Quick Format
WARNING This option will format the user partition on the hard disk and recover all factory-shipped files into the user partition. All your personal data files created and applications installed after the PC was purchased will be erased. If possible, please quit and backup your data files BEFORE trying this Destructive Recovery option!
About ...
Next >
Quit

4 **Click System Recovery - Quick Format, and then click the Next button.**

The following dialog box appears.
Read the dialog box carefully.


Windows XP buil-in repair features
Windows XP has its own buil-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this system recovery.
Clicking on "No" will boot the PC directly into System Restore.
Do you still want to continue with System Recovery now ?
Yes
No

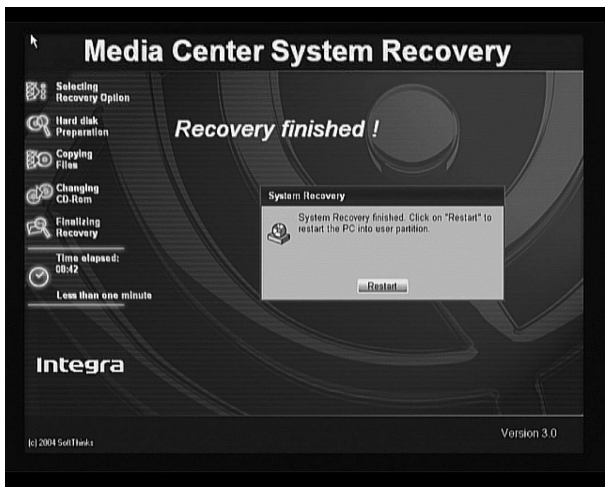
5 **Click the Yes button.**

The System Recovery - Format and Recover dialog box appears.
Make sure that a Quick Format System Recovery is really necessary before continuing.

System Recovery Format and Recover
All filles, including data files, on the user partition will be lost and the original factory-shipped files will be recovered to the user partition.
Do you want to continue?
Yes
No

6 **Click the Yes button to start the system recovery.**

System recovery takes about 30 minutes.
"Recovery finished!" appears when the system recovery is complete.



7 **Click the Restart button to restart the NVS-7.7.**

Troubleshooting

If you have any trouble using the NVS-7.7, look for a solution in this section.
Note that the trouble may be due to another of your components, so refer to your other instruction manuals as well while troubleshooting.

Power

Can't turn on the NVS-7.7

- Make sure that the power cord is plugged into the wall outlet properly.
- Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it in again.

Audio

There is no sound or it's very quiet

- Make sure that all audio connecting plugs are pushed in all the way.
- Make sure the volume isn't turned down all the way.
- If the Mute indicator is shown on the display, press the remote controller's [MUTE] button to unmute the NVS-7.7.
- When the S/PDIF settings in Media Center and PowerDVD are both on, nothing is output by the analog outputs when a Dolby Digital or DTS soundtrack is played (page 38).

There is no digital output

- On the **SigmaTel Audio** control panel > **Advanced** tab, make sure **Enable Digital Output** is selected. If it's not selected, digital audio will not be output (page 43).
- Check if your AV receiver or TV supports Dolby Digital and DTS. If it doesn't, in Media Center > **Settings** > **DVD** > **Audio**, set **Use SPDIF** to **Off**. And, in PowerDVD > **Configuration** > **Audio**, deselect **Enable S/PDIF** (page 38).
- With some DVD-Audio discs, digital audio is not output.

Analog multichannel audio doesn't playback correctly

- On the **SigmaTel Audio** control panel > **Speaker Test** tab, make sure the **Speaker Configuration** setting matches your speakers (7.1 Speakers or 5.1 Speakers) (page 39).
- The **Speaker Setup** on the Windows® **Sounds, Speech, and Audio Devices** control panel > **Sounds and Audio Devices** > **Volume** tab > **Speaker Settings** > **Advanced** > **Speakers** tab > have no effect on the NVS-7.7. Likewise, the Media Center > **Settings** > **General** > **Media Center Setup** > **Set Up Your Speakers** settings have no effect on the NVS-7.7. For multichannel speaker settings, use the **SigmaTel Audio** control panel (page 39).

The following table shows which output to use and how to set the S/PDIF digital output settings based on your application. The **Enable Digital Output** check box on the SigmaTel Audio control panel should always be selected.

<table>
<tr><th colspan="2" rowspan="2">Application</th><th rowspan="2">Output jack</th><th rowspan="2">Media Center and PowerDVD S/PDIF settings</th><th colspan="2">Audio outputs</th></tr>
<tr><th>Digital</th><th>Analog</th></tr>
<tr><td rowspan="2">Simple digital connection</td><td>If your AV receiver supports Dolby Digital and DTS</td><td rowspan="2">COAXIAL or OPTICAL DIGITAL AUDIO OUT</td><td>Set to ON</td><td>Dolby Digital and DTS are output as they are. Other sources are output as PCM.</td><td>Dolby Digital and DTS sources are not output. Other sources are output.</td></tr>
<tr><td>If your AV receiver or TV doesn't support Dolby Digital and DTS</td><td rowspan="3">OFF (default)</td><td rowspan="3">All sources are output as PCM</td><td rowspan="3">All source output</td></tr>
<tr><td colspan="2">For multichannel DVD-Audio playback</td><td>7.1CH AUDIO OUT</td></tr>
<tr><td colspan="2">For 2-channel pure audio playback with the best sound quality</td><td>2CH AUDIO OUT (VLSC)</td></tr>
</table>

Noise can be heard

- Make sure that all audio connecting plugs are pushed in all the way.
- Using cable ties to bundle audio cables with power cords, speaker cables, and so on may degrade the audio performance, so don't do it.
- An audio cable may be picking up interference. Try repositioning your cables.
- When playing a DTS source, using the pause, fast forward, or fast reverse function on your player may produce a short audible noise. This is not a malfunction.
- Trying to play a DTS CD with Media Center may produce noise. DTS CDs can only be played with the PowerDVD program when the **Enable S/PDIF** option is deselected (page 38 of this manual and page 30 of the *Media Center Instruction Manual*).

Can't output Dolby Digital or DTS from the digital outputs (optical/coaxial)

- If you've connected your AV receiver to a digital audio output, to output Dolby Digital and DTS, you must change the digital audio output settings (page 38).

Can't adjust the volume

- If your AV receiver is connected to a digital audio output on the NVS-7.7, the volume must be adjusted on the AV receiver (page 30).
- If your AV receiver is connected to NVS-7.7's 2CH AUDIO OUT jacks, the volume must be adjusted on the AV receiver (page 31).

Audio performance
Audio performance will be at its best about 10 to 30 minutes after the NVS-7.7 has been turned on and had time to warm up.

Video

The picture distorts occasionally

- Remove the disc and try cleaning it (page 9).
- When fast forwarding or rewinding, the picture may distort slightly.
- Running multiple programs simultaneously may cause screen redraw problems. This is not a malfunction of the NVS-7.7.

Picture instability or noise

- If the NVS-7.7 is connected to your TV via a VCR or other video component, a copy-protection system may affect the picture quality, so connect it directly to your TV.
- Depending on your TV or monitor, during playback, the color saturation (color level) may be slightly weak, or the color tint may change. In addition, some discs may contain high resolution video that may cause picture noise. In this case, adjust your TV or monitor to achieve the best picture.

There's no picture

- On your TV, select the input to which the NVS-7.7 is connected.
- Always turn on your TV or monitor before turning on the NVS-7.7.
- The NVS-7.7 cannot output video from the component video, S-Video, and composite video jacks simultaneously. Connect your TV or monitor to only one of the video outputs.
- When playback is paused or stopped and the same picture is displayed for a long time, the Windows® screen saver will activate. Press the Play [►] button to cancel the screen saver.
- If you're using a DVI-to-HDMI adapter cable to connect the NVS-7.7, connect it directly to your TV. Don't connect the NVS-7.7 via another component, as the picture may not display correctly.

The picture is not clear when using the S-Video or composite video connection

- With an S-Video or composite video connection, the picture will not be as clear as it is when using the DVI or component video connection. If your TV has a large screen, we recommend you use the DVI or component video connection.

The picture color is distorted

- Try moving your speakers away from your TV.

There's no picture from the component video output when playing a DVD

- When using the component video output, right-click on the Windows® desktop, and click **Graphics Properties** to open the Display control panel. Click the **Display Settings** tab, and set the video standard to **HDTV_480p59** or **HDTV_480i59**. If **HDTV_720p59** or **HDTV_1080i59** is selected, there will be no picture when playing a DVD. If you select HDTV_720p50 or a setting that ends with something other than *59*, you may lose the picture completely, so be careful.

Disc Playback

Can't start playback

- Use only supported discs (page 7).
- The types of discs that can be played in the NVS-7.7 is dependent on the playback software (i.e., Media Center and PowerDVD). For example, DVD-Audio and Video CD discs can only be played by PowerDVD.
- The NVS-7.7 supports NTSC. If you attempt to play a PAL disc, the picture will not display correctly.

Playback doesn't start immediately

- It takes time to read a DVD or CD that contains lot of tracks. This is normal.

Audio playback skips, jumps, or is noisy

- If the NVS-7.7 is subjected to vibration, or the disc is scratched or dirty, audio playback may skip.

A disc is loaded but doesn't play

- Make sure the disc is loaded the right way up.
- Make sure the disc isn't scratched or damaged.
- If you think there may be condensation on the disc, leave the NVS-7.7 turned on for about 1 hour before using it.

DVD Playback

Can't play a DVD

- Before playing a DVD for the very first time, you must enter the CyberLink PowerDVD CD key and obtain a CPPM key code (page 37).
- Check the disc's region number. The NVS-7.7 can play discs that bear the Region 1 or ALL logo.

DVD-Audio Playback

Can't play a DVD-Audio disc

- DVD-Audio discs can only be played by the PowerDVD program. Start PowerDVD before loading the DVD-Audio disc (see page 30 of the *Media Center Instruction Manual*).
- Before playing a DVD-Audio disc for the very first time, you must enter the CyberLink PowerDVD CD key and obtain a CPPM key code (page 37).

Copy-controlled CDs

Playback is noisy or skips, the first track doesn't play, it takes longer than normal to locate the beginning of tracks, playback starts in the middle of a track, some sections of a track cannot be played, playback stops half way through a track, or the information shown on the display is incorrect

- Copy-controlled CDs are special discs that don't conform to the audio CD standard and, therefore, may not work properly in the NVS-7.7.

CD-R/RW, DVD±R/RW Playback

Can't play a disc

- Make sure the disc has been finalized.

TV Reception

On the NVS-7.7, you can't watch both TV received via antenna (CATV, TV (NTSC), TV (ATSC)) and TV received via a cable or satellite set-top box. The very first time you start Media Center, you must chose one or the other as the TV Signal Source in the Media Center Setup Wizard.

TV reception is noisy

- Check your TV antenna connections (page 26).
- Check the TV Input settings in Media Center (see page 27 of the *Media Center Instruction Manual*).

Can't record

- There's not enough free space on the hard disk.
- Check the Record Settings in Media Center (see page 25 of the *Media Center Instruction Manual*).
- Check the TV Input settings in Media Center (see page 27 of the *Media Center Instruction Manual*).

FM Radio

FM radio reception is noisy

- Check your FM antenna connections (page 27).
- Relocate your FM antenna.
- Passing cars and airplanes may cause interference.
- Concrete walls weaken radio signals.
- If nothing improves the reception, install an outdoor FM antenna.

Remote Controller

The remote controller doesn't work

- Make sure the batteries are installed with the correct polarity (page 22).
- Try replacing all of the batteries with new ones. (Don't mix new and old batteries or different types of batteries.)
- Make sure the remote controller is not too far away from the NVS-7.7, and that there's no obstruction between the remote controller and the NVS-7.7's remote control sensor (page 22).
- The remote controller may not work reliably if the NVS-7.7's remote control sensor is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights.
- If the NVS-7.7 is installed in a cabinet with colored glass doors, the remote controller may not work reliably when the doors are closed.

Keyboard

The keyboard doesn't work

- Simultaneously press the NVS-7.7's Keyboard Reset button and the keyboard's Transmit button. Resetting the keyboard helps to protect against interference from other wireless keyboards used in the same environment.
- The keyboard may not work reliably when used close to a wireless computer network, microwave oven, or other device that uses the 2.4 GHz frequency range. Try using the keyboard closer to the NVS-7.7.
- Make sure the batteries are installed with the correct polarity (page 19).
- Try replacing all of the batteries with new ones. (Don't mix new and old batteries or different types of batteries.)
- Make sure there's no obstacle between the keyboard and NVS-7.7.

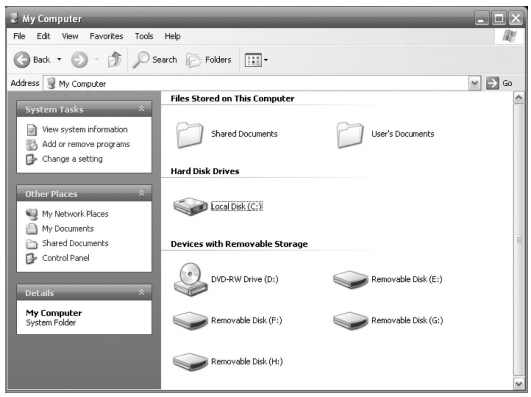
Memory Card Slots

Inserting a memory card

1. Insert the memory card with the label-side facing up.

Viewing the contents of a memory card

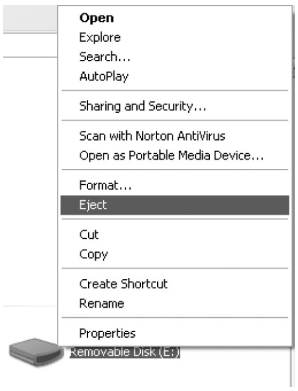
1. On the Windows® desktop, click the **Start** button, and then click **My Computer**.
2. Double-click the Removable Disk (i.e., memory card) you inserted.
   When you insert a memory card, four Removable Disk icons, each assigned a drive letter, appear. One for MMC/SD cards (E:), one for CompactFlash I/II cards (F:), one for SmartMedia cards (G:), and one for MS/MS Pro cards (H:).



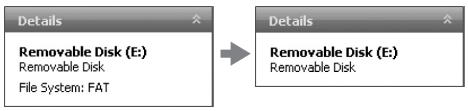
Note:
The actual drive letters assigned to the Removable Disks (e.g., E, F, G, and H) depends on which drive letters are already in use when the card is inserted.

Removing a memory card

1. On the Windows® desktop, click the **Start** button, and then click **My Computer**.
2. Right-click the Removable Disk (i.e., memory card), and then click **Eject**.



3. After confirming that the information under **Details** has changed as shown in the screen shots below, remove the memory card.



Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

The NVS-7.7 contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in again.

Windows®

About Windows® activation

- After turning on the NVS-7.7 for the very first time, you must activate Windows® within 30 days. If you don't activate it, once the 30 days is up, you will no longer be able to use Windows® and the activation window will appear. Follow the instructions on the window to activate your copy of Windows® (page 34).

SigmaTel Audio

Changing the SigmaTel Audio settings has no effect

- The SigmaTel Audio settings do not affect the 2CH AUDIO OUT.
- Some SigmaTel Audio settings only affect the analog multichannel output or the digital audio outputs (page 42 to page 45).

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Specifications

Audio Output

Sound feature	Intel High Definition Audio 192 kHz, 24 bit max.
Frequency response	0.3 Hz–88 kHz (2ch output, sampling rate 192 kHz) 0.3 Hz–20 kHz (7.1ch output)
S/N Ratio	110 dB (IHF-A, 2ch output) 100 dB (IHF-A, 7.1ch output)
THD (Total Harmonic Distortion	0.003% (1 kHz, 2ch output) 0.006% (1 kHz, 7.1ch output)
Analog output	2.0 Vrms (2ch/7.1ch output)
Digital output	S/PDIF (coaxial/optical) 48 kHz fixed

Video Output

Video output interface	S-Video output Video output Component video output

AV Input

Video input interface	S-Video input Video input Analog Audio input

ATSC Tuner

Input frequency range	54 MHz–864 MHz

NTSC Tuner

Channel range	CH2–CH69

FM Tuner

Tuning range	88.1 MHz–107.9 MHz

PC

Operating system	Microsoft® Windows® XP Media Center Edition 2005
CPU	Intel® Pentium® D Processor 820 (2.8 GHz)
Main memory	1 GB PC2-4200
Chipset	Intel 945G Express+ICH7-DH
Hard disk drive	400 GB SATA
CD/DVD drive	DVD Multi drive
Display output	DVI, VGA
Display resolution	800 x 600, 1024 x 768, 1152 x 864, 1280 x 600, 1280 x 720, 1280 x 768, 1280 x 960, 1280 x 1024, 1400 x 1050, 1600 x 900, 1600 x 1200, 1792 x 1344, 1856 x 1392, 1920 x 1080, 1920 x 1200, 1920 x 1440, 2048 x 1536
LAN	100Base-TX/10Base-T
USB 2.0	2 ports on front 2 ports on back
IEEE1394a	1 port (4pin) on front (DV input) 2 ports (6pin) on back
Memory card	SmartMedia, MMC (MultiMediaCard), SD (Secure Digital), CompactFlash Type I/II, Microdrive, Memory Stick (MS), Memory Stick PRO (MS PRO)
Input device	Wireless keyboard Remote controller
Others	IR emitter

General

Power supply	AC 120V, 60Hz
Power consumption	6.0 A max
Dimensions (W x H x D)	17-1/8" x 4-9/16" x 16-1/4" (435 x 116 x 408 mm)
Weight	20.9 lbs. (9.5 kg)
Operating environment temperature	41˚F–95˚F (5˚C–35˚C)
Recovery	Hard drive

Specifications and features are subject to change without notice.

Memo

Memo

Memo

PowerDVD CD key

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